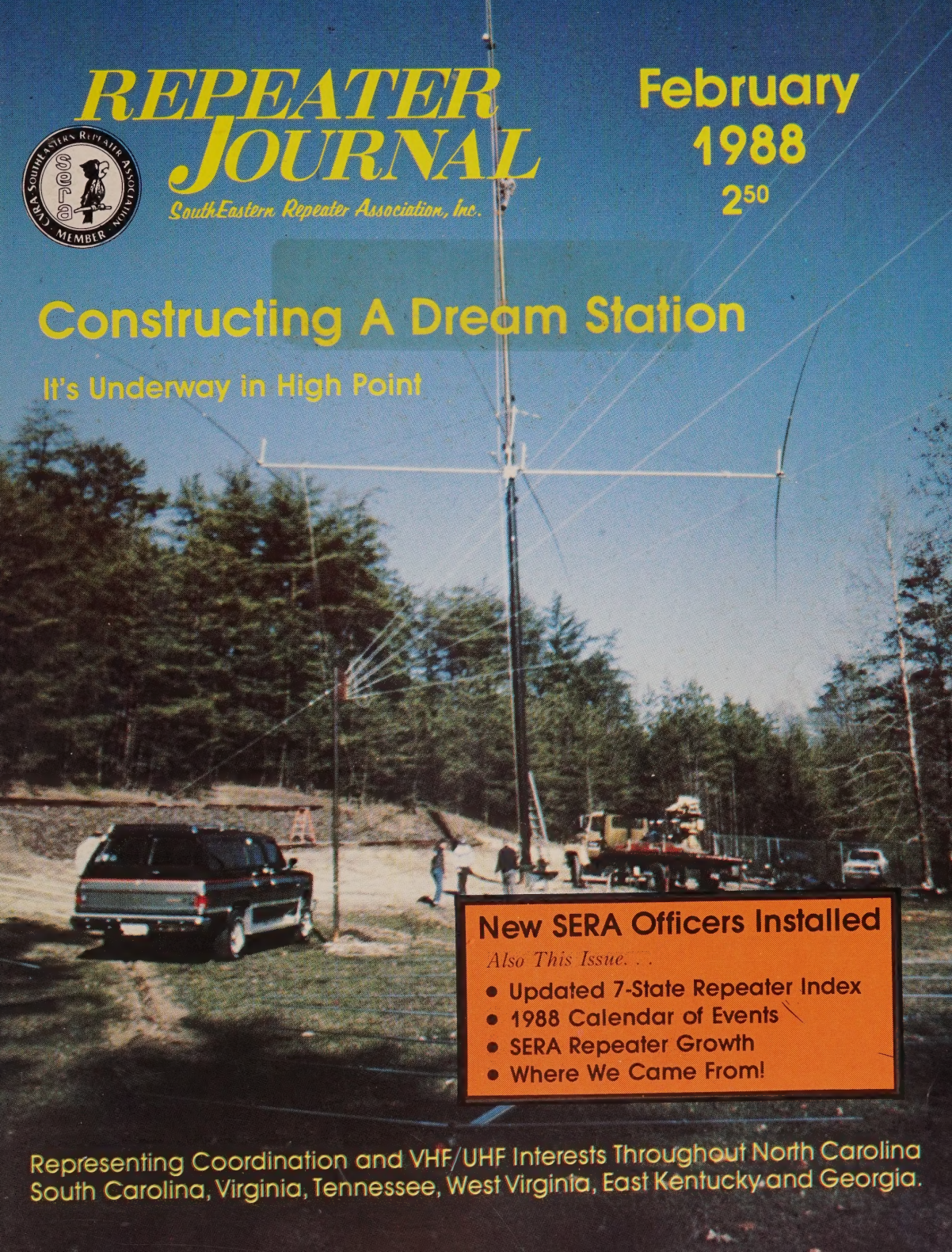
REPEATER JOURNAL

SouthEastern Repeater Association, Inc.

February
1988
2.50

Constructing A Dream Station

It's Underway in High Point



New SERA Officers Installed

Also This Issue. . .

- Updated 7-State Repeater Index
- 1988 Calendar of Events
- SERA Repeater Growth
- Where We Came From!

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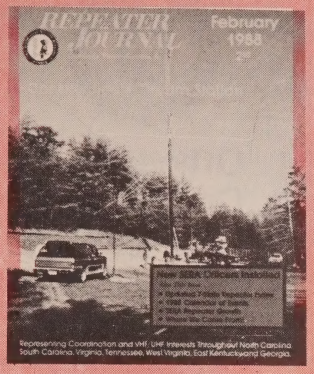
ON THE COVER



Representing Coordination and VHF, UHF Interests Throughout North Carolina, South Carolina, Virginia, Tennessee, West Virginia, East Kentucky and Georgia.

Our picture cannot do justice to the amazing array of antennas being installed on the 110-foot monopole at the home of Randy Smith, WA4HUV of High Point, N.C. His "dream" station has been under construction for 8 months, and will continue into the Spring. - Color Slide provided by F.L. Warford, K4AZA, photography by Suzzanne Louder.

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REPEATER JOURNAL

CVRA - SouthEastern Repeater Association, Inc.

Feb., Mar., April 1988
Volume 17, No. 1
ORGANIZED IN 1971
"In Our 17th Year"

Editorial Comment

Looking Back At Our Roots! Part I

"On March 14, 1971, a large group of North Carolina Amateur repeater owners and repeater club representatives met in Greensboro, N.C. to determine if interest existed within the State to form some type of state-wide organization to represent the "new FM Repeater interests". Representatives from most of the active repeaters within the state were present at the session. The decision to form the North Carolina FM Repeater Association, Inc. was unanimous. . . . . ."

And so, on that day, in the old W4GG club building on Highway 421 near Greensboro, and the Regional Airport, SERA was born.

But wait! Who started all this? All the historical documents and paperwork that has been seen over the years start with the March 14th date.

I decided it was time to dig back and find out just who had the idea to start such a thing as Amateur Frequency coordination in 1971.

The best source is always the original source, so fortunately, I was able to talk with Don Harris, W4BUZ of Greensboro, and F.L. Warford, K4AZA of High Point.

Surprisingly, what initiated the idea of coordination in 1971 was interference from other repeaters.

"Surely you jest-interference in 1971", I told them.

They explained that everyone putting on repeaters in those days wanted to go on 146.94 and 146.76, several different inputs were used, but the favorite outputs were 94 and 76. Thus interference problems began cropping up around North Carolina, as more and more machines got on the air on those choice frequencies. (With mostly converted G.E. and Motorola gear, and very expensive crystals, it made sense to get on the same frequency that everybody else was on, as far as operation and the users transceiver was concerned. But this just wasn't working with additional repeaters.)

"In the late '60's Bill Ingram, WB4OFF bought an old Motorola repeater from Amos Rhames, K4WQS and placed the machine on 16-76 at his home in Greensboro", Don Harris thought back. "Bill and I had worked together a lot converting old VHF Commercial rigs, so naturally I became interested in the repeater on Amateur Radio."

By January of 1969, F.L. Warford, K4AZA put a repeater on 34-94 in High Point. Hearing of the other nearby repeater, Don, Bill and F.L. naturally got together and compared notes, and became good friends.

In February of 1969, W4BFB, the club in Charlotte placed their repeater on the air on 34-94. Later in September, Bill Simms, K4RUQ got his machine going on 34-94 in Durham.

During the remainder of 1969 and 1970 several more repeaters came on the air in the State. By now the repeater owners were discovering that the Amateur repeaters were doing a better job than they expected, and interference began between the machines located less than 100 miles apart on the same frequency.

"We had gotten to know Bill Simms, so he, myself, F.L. and Bill Ingram met several times in 1970, to talk about what was happening on Amateur 2-meter FM," Harris went on to say. "I was heavily involved and up-to-date in Amateur rules, F.L. had enormous experience in the repeater field of Commercial Broadcast and Bill Simms, who worked at Duke University was well versed in business and law."

As the group watched Amateur repeaters grow, and saw problems beginning in North Carolina, and hearing of similar problems across the country where 2-meter FM was breaking out, they put their heads together and thought out a plan of setting up an Amateur volunteer

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REPEATER JOURNAL

FEB., MAR., APR. 1988

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About Associate Membership

Repeater users and Amateurs are invited to join SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication — Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. SERA does not issue receipts for Membership applications. Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 24292, Winston-Salem, N.C. 27114-4291. Associate Members may hold appointive positions within SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calendar year.

About the Repeater Journal. . .

The SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of Southeastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newsletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

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About SERA. . .

The Southeastern Repeater Association is one of the largest Non-Profit Repeater Councils in the United States. SERA Territory covers over 1,000 repeaters in member states of North Carolina, South Carolina, Virginia, Tennessee, West Virginia, East Kentucky and Georgia. In our 17th year, our goal is to continue providing a pleasant operating condition in the VHF/UHF spectrum of Amateur Radio through Coordination and information.

New SERA Officers Installed

Carter Cogle, K4ARO and Ray Adams, N4BAQ were re-elected to the offices of President and Treasurer respectively in a run-off election. Newcomer, Barbarra Gregory, WA4RMC was elected Secretary, replacing Nita Morgan, N4DON who moved into the office of Vice-President.

The Presidential and Treasurers race were thrown into an election for all Full Members when they were opposed by ballots "from the floor", in which Sam Snyder, WD4SBX and Dale Counts, N4KMK were nominated from an application published in the Journal.

Cogle and Adams won handily over Snyder and Counts. Each of the two groups had their own philosophy of how SERA should move in the future. Apparently the present way of doing things within the the organization was favored by Full Members.

Cogle received over 92% of the votes cast for President, and Adams received 91% against Counts. Approximately 57% of the eligible voters returned ballots.

Carter told the Journal he was pleased at the overwhelming support given him in the election, which proves that the organization must be going the right direction. Cogle has been in some form of office for SERA since the mid-70's.

Adams, who was elected to office of Treasurer in the early '80's returns for his third term. He was instrumental in getting an attempt status of non-profit for SERA with the IRS, and has kept a very professional set of books since.

In the opposition for SERA President, Snyder, according to papers on file with SERA and ARRL, is also President and Frequency Coordinator of the Appalachian Repeater Coordinating Council, an organization which had asked the ARRL for recognition as the official coordinator for Eastern Tennessee, Western Virginia and Southern West Virginia.

Counts is a repeater owner from Gray Tennessee. Both Counts and Snyder were nominated by Eddie Palmer, K4LPS; Benny Peterson, WB4SQC; and Martin Clark, N4KZW. They all are repeater representatives in the Tri-Cities Tennessee area, in which the Appalachian Repeater Council claims jurisdiction.

SERA is on record of not recognizing this coordination council, and remains the official coordinator for those areas.

The new SERA officers took office effective January 1st. Official installation ceremonies are planned later in the year.

CVRA-SouthEastern Repeater Association, Inc.

December 11, 1987

Re: Election of Officers for the SouthEastern Repeater Association, Inc. (SERA)
634 Ballots were mailed on December 3, 1987 to SERA Full Members
314 Valid ballots were received
27 Late ballots were received
7 Invalid ballots for various reasons
348 Total ballots were received

On December 11, 1987, we the undersigned opened all election ballots received by noon, December 10, 1987, and in the presence of the three persons whose names appear below, performed for each ballot:

1. Certify the voter as being a valid representative of a SERA Full Member repeater (as defined in the SERA Articles of Association and Bylaws.)
2. Tallied the votes.

Of the 314 valid ballots received:

1. For the office of President:
   a. 290 were received for Carter Cogle
   b. 24 were received for Sam Snyder
2. For the office of Treasurer:
   a. 285 were received for Ray Adams
   b. 28 were received for Dale Counts
   c. 1 abstention

The ballots for this election are on file with the SERA Secretary, and may be examined at any time.

Balloting Committee:

Bert Coker
Bert Coker - N4BZJ

Barbarra Gregory
Barbarra Gregory - WA4RMC

Roy Kennedy
Roy Kennedy - KA4AFS

REPRESENTING COORDINATION AND UHF/VHF INTERESTS THROUGHOUT NORTH CAROLINA, SOUTH CAROLINA, VIRGINIA, TENNESSEE, WEST VIRGINIA, EAST KENTUCKY AND GEORGIA

Weather Delays SERA Winter Directors Meeting

The Winter meeting of the Board of Directors of The Southeastern Repeater Association, Inc. had been scheduled for January 9-10, but the heavy snowstorm that swept across the Eastern part of the Country caused the meeting to be cancelled.

President Carter Cogle, K4ARO made inquiries on Wednesday night, then as the actual snow came, the decision to cancel was made on Thursday.

"We could have waited longer," Cogle said, "To see if the roads would clear by Saturday, but some of the people have to travel so far, we felt it was in the best interest to go ahead and cancel ahead of time." "We certainly didn't want anyone to get hurt trying to get to a meeting on snowy roads, and obviously the attendance would be down if the roads had been relatively good." "So, I feel we did the right thing by canceling when we did."

As the Journal is going to press, the new meeting date had not been set, although as you read this, the meeting might have been held.

Other than regular agenda items, and reports, there were no big things scheduled to come out of the meeting. A formal officer installation ceremony was scheduled, but is not called for in the By-Laws, which only state that newly elected officers take office on January 1st.

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EXHIBIT BOOTH: Robert Starling, N4GVF, 7921 Holly Hill Rd., Charlotte, NC 28212, (704) 568-7611
FLEA MARKET CHMN: Jeff Blythe, KA4WYC, 634 Northway Drive, Charlotte, NC 28208, (704) 393-7140
PRE-REGISTRATION: Andy Hawkins, G4GKK, 426 Greystone Road, Charlotte, NC 28209, (704) 523-4463

Use this handy form for your pre-registration tickets. If we receive your request after March 11, 1988 or you have not included a S.A.S.E. we will hold your tickets at the door.

1988 CHARLOTTE HAMFEST AND COMPUTERFAIR

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Contact - Bill Runyon N4BDH 487-8611

Mar. 5 South Peninsula Amateur Radio Club (ARRL exam)
Contact - Sid Evans N4IIC 8511-5573

Apr. 4 Williamsburg Area Amateur Radio Club (ARRL exam)
Contact - Andrew Swanson WJ4X 253-2811

May 14 Portsmouth Amateur Radio Club (ARRL exam)
Contact - Art Thiemens AA4AT 484-2857

Jun. 4 Virginia Beach Amateur Radio Club (ARRL exam)
Contact - Tom Weikel KA4UNC 340-7697

Jul. 16 Chesapeake DX Assn. (W5YI exam)
Contact - Bill Verebely KC4YX 424-4764

Aug. 1 Hampton Roads Radio Assn. - (W5YI exam)
Contact - Bill Runyon N4BDH 487-8611

Pre-registration is appreciated, but walk-ins are okay.

Bring your **original** and a **photo copy** of your current license and any license upgrade certificates.

For ARRL Exams - submit a $4.55 check payable to ARRL/VEC.

For W5YI Exams - cost is $4.55.

For Ches. Dx Assn examx - make check payable to Bill Verebely/VEC.

For HRRA exams - make check payable to HRRA/VEC.

When pre-registering, send copy of completed FCC Form 610 with your check and license photo copy.

WEST VIRGINIA
BLUEFIELD

W5YI/VEC walkin exams begin at 9 a.m. on dates listed. Please bring appropriate materials and information when you come. For complete information Call: (703) 326-2411. The fee for examination is $4.55.

Schedule

Saturday - February 13
Sunday - May 8 (Hamfest)
Satruday - August 13
Saturday - November 12th

SOUTH CAROLINA
COLUMBIA

WCARS/VEC exams will be held in Columbia, with walk-ins accepted. Exams start promptly at 9:00 a.m. For complete information contact: Ray Rogers, N4WR, P.O. Box 550, Chapin, South Carolina 29036. Phone: (803) 345-3373.

Schedule

February 20 **April 16**
June 18 **August 20**
October 15 **December 17**

WEST VIRGINIA
CHARLESTON

The Kanawha Valley, W5YI/VEC group will administer examinations, novice through Extra class beginning at 9:00 a.m. at Holy Trinity Catholic Church in Nitro. No Pre-registration required. For further information, the St. Albans 40-00 repeater will be available for talk-in.

Schedule

2nd Saturday Every Month

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Part I - Technical & Outside

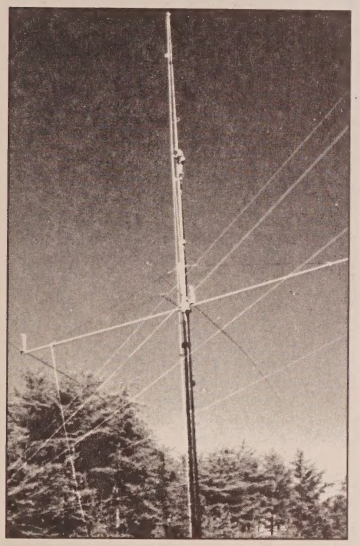
Putting Together A "Dream" Station

— compiled by Fred Blackman, AA4IZ

Cover Story

Photos by: Suzzane Louder

It may just be the premier Amateur Radio station in North Carolina. Randy Smith, WA4HUV, of High Point is putting together a "dream" station. It has been under construction since last July, and will continue on through the Spring of '88.



A lone worker on the monopole readies the raising of the massive 80-meter monobea of Randy Smith, WA4HUV.

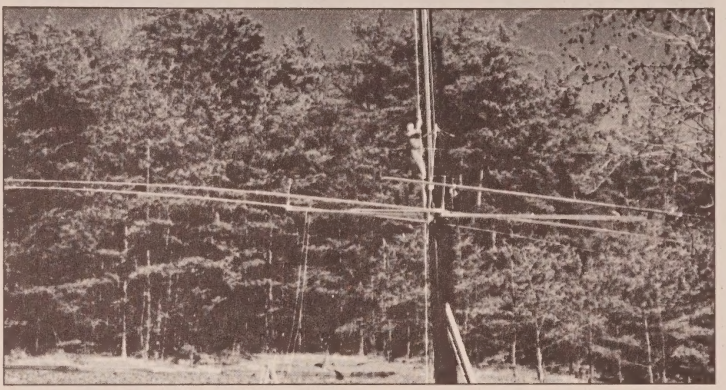
The Antenna System

The antenna system for Randy's station is almost mind-blowing. At this writing, a 110 foot monopole supports: (1) a 3-element KLM 8-METER beam, with a 60-foot boom, supporting 90-foot elements. This monster has 7 db gain. (2) Next comes a 10-METER monobander with 6-elements and a gain of 11 db. This one has a 27.5-foot boom and 18-foot elements. (3) Under that is a 15-METER monobander with 6-elements. It's boom length is 36-feet, the elements are 25-feet long, and a gain of 11 db. (4) Let's not forget the 20-METER monobander with a 57-foot boom, and its six 37-foot elements. The gain is 11 db. (5) Being assembled and to follow will be the 40-METER monobander with a 42-foot boom, sporting four 46-foot elements for a gain of 7.2 db. (6) Finally under all that on the 110-ft. "skyneedle" will go a Log Periodic. This rather large antenna is 30-feet long and has seven elements, each 43-feet long. This little baby will be used for receiving when "DX" chasing and for transmitting on the new WARC bands.

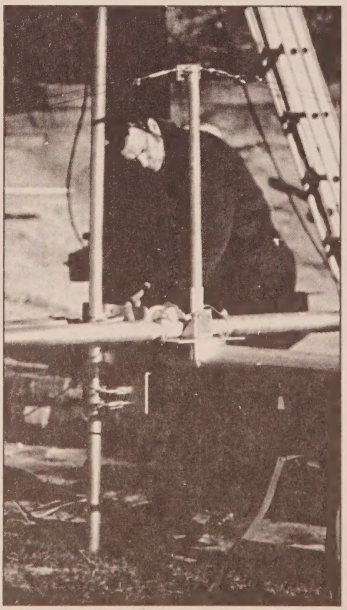
Grounding

How do you ground such an impressive array? You use 568-feet of 4-inch copper strap placed in radials around the monopole, with 198, 12-foot ground rods. These ground rods are

Continued On Next Page



Getting the 80-meter monobeam ready for its trip up the 110-foot "skyneedle". It will join other monobeams for all bands and a Log Periodic, for a total of over 600 pounds of antenna, adding to the 3,600 pound weight of the monopole, which rotates.



Getting in the thick of things. Randy Smith, WA4HUV lays a wrench to one of the numerous antennas to go up on his 110-foot monopole.

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The 40-meter monobeam starts its way up the 110-foot monopole to join the 80-meter monobeam, and others on the rotatable needle. The system is part of Randy Smith's "Dream Station".

placed every 3-feet along the copper straps. All connections in the ground system are silver soldered and buried about 8 to 12 inches in the ground. There's also a copper strap that goes from the monopole to the base of a nearby Rohn 25G tower, and then continues to the equipment inside Randy's shack.

The 110-foot skyneedle is planted in 55 yards of concrete.

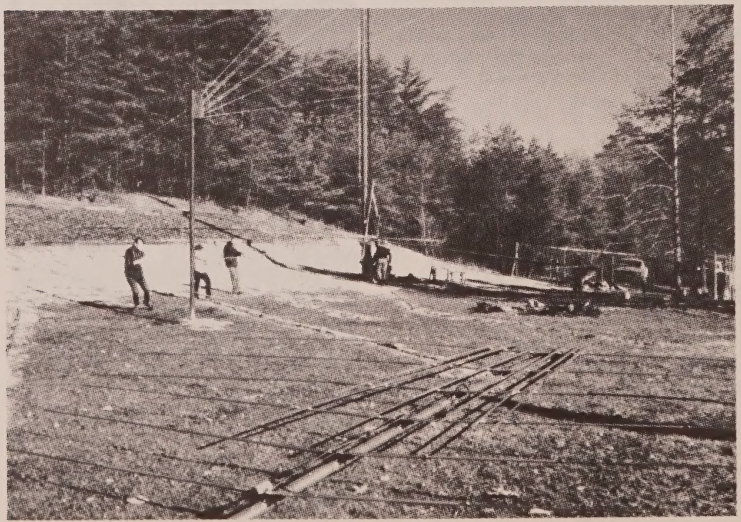
The Monopole

The monopole which reaches 110-feet into the sky is supported by 52 yards of concrete. It is rotated by a third of a horsepower motor which drives a reduction gear, consisting of two worm drives. . . which gives a turning ratio of about 1500 to 1. This motor is controlled by a Pro-Search rotor control, with speech synthesizer and 10-memories for pre-programming antenna headings.

Six antenna arrays are perched on the 3600 lb. monopole.

The weight of the monopole. . . minus the antennas. . . is 3600 lbs. The antennas add another 630 lbs.

Continued On Next Page



An overview of the area of the Randy Smith antenna farm. In the foreground is a partial stack of beams already assembled to go on the 110-foot monopole. The monopole is near the center of the picture. The pole to the left is the brace for guywires to Randy's 130-foot Rohn Tower for VHF/UHF.

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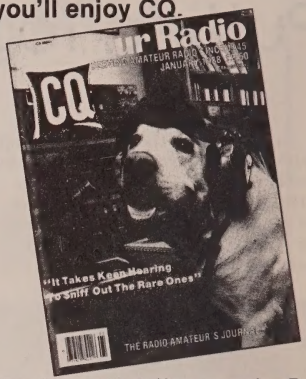

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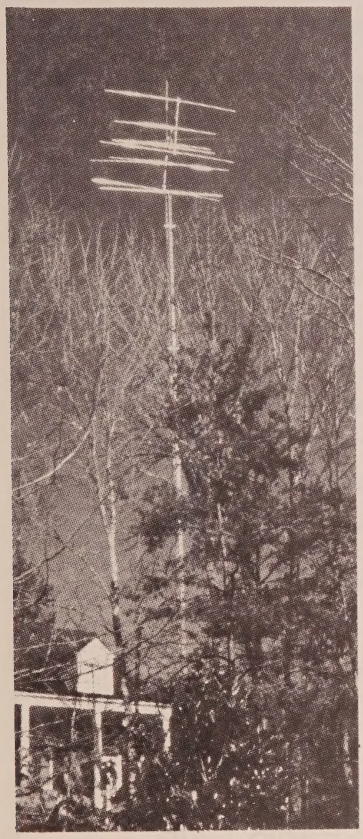
More "Dream Stations"

The antennas are all fed with 9913 low-loss coax and at the base are protected by gas discharged lightning arrestors. The feed lines, power, and control lines enter the shack via a 4-inch underground conduit.

The turning radius of the "skyneedle" monopole and its stack of antennas is 55 feet.



Randy's VHF/UHF tower, 135 feet, with 64 elements on 2-meters, 80 elements on 440, 6 elements on 6-meters, and a dual-band vertical at the top.

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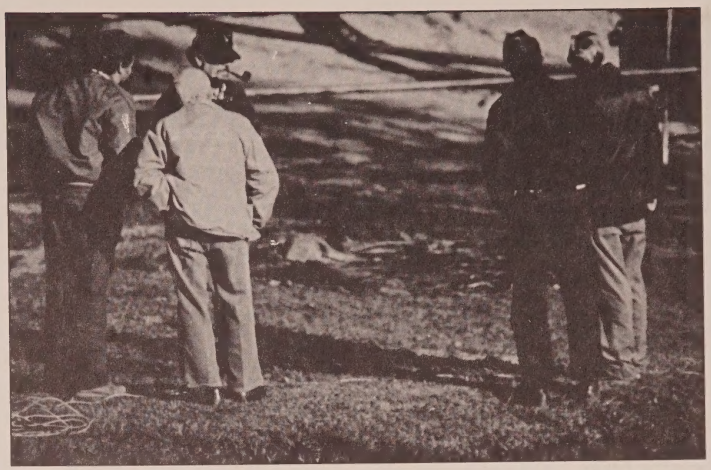

Part of the ground crew, taking a breather in the chilly weather, waiting for the pole operator to yell down for another antenna. Randy, WA4HUV is the one puffing the pipe.

More Antennas!

We mentioned earlier, a Rohn 25G tower. This is a 130-foot tower that supports Randy's VHF/UHF operation. Antennas include:

(1) Four KLM 2-METER longbooms stacked on an "H" frame for a total 64-elements and a gain of 21.3 db.

(2) A 220-mhz longboom with 22-elements and a gain of 15.6 db.

(3) Four 440-mhz KLM beams stacked, totaling 80-elements and 21.3 db gain.

(4) A 7-element 6-METER beam with 11.5 db. gain.

(5) And at the very top, a Diamond Dual-

Continued On Next Page

Financial Report

—by Ray Adams, N4BAQ

SERA Treasurer

FINANCIAL STATEMENTS

Calendar years 1983, 1984, 1985, 1986, and 1987

	1983	1984	1985	1986	1987
Dues	$4/$8	$4/$8	$5/$10	$6/$15	$6/$15
REVENUES					
Advertising	$ 7,876.75	$ 6,450.90	$ 7,434.10	$ 6,595.75	$ 6,611.50
Associate membership dues	9,967.50	10,501.25	11,788.23	12,559.00	13,412.00
Full membership dues	2,757.00	1,652.00	4,242.00	4,382.25	4,070.25
Decals	-0-	-0-	278.50	70.50	31.00
Postage - includes HOT-P	-0-	-0-	125.50	266.50	273.50
Interests	-0-	-0-	60.82	273.18	401.80
Hats	-0-	-0-	231.50	123.37	63.00
Contributions	-0-	-0-	-0-	182.00	102.00
Other	16.25	54.00	82.75	83.64	16.90
TOTAL REVENUE	$20,617.50	$18,658.15	$24,243.40	$24,536.19	$24,981.95
EXPENSES					
Journal mailing	$ 2,282.49	$ 2,698.57	$ 2,292.49	$ 3,378.48	$ 2,511.95
Journal printing	14,369.28	15,242.26	15,620.34	12,783.43	16,553.59
Miscellaneous expenses	-0-	2.35	578.78	-0-	120.13
Travel and meetings	600.51	795.59	996.50	1,428.90	2,051.22
Office expenses	111.58	43.13	308.80	137.87	171.10
Amortization of office machines	448.00	448.00	448.00	448.00	875.63
Postage other than journal	300.17	167.86	1,238.74	387.44	721.06
Printing other than journal	1,026.68	264.74	2,011.15	186.96	848.63
Telephone	455.00	438.00	452.59	576.38	442.37
TOTAL EXPENSES	$19,593.71	$20,100.50	$23,947.39	$19,327.46	$24,295.68
REVENUE OVER <UNDER> EXPENSES	$ 1,023.79	$<1,442.35>	$ 296.01	$ 5,208.73	$ 686.27
Balances, beginning of year					
Expenses advanced	$ 700.00	$ 800.00	$ 900.00	$ 950.00	$ 900.00
Invested in office machines	2,240.00	1,792.00	1,344.00	896.00	2,571.63
Cash in bank	1,135.60	2,507.39	1,413.04	2,107.05	5,690.15
	$ 4,075.60	$ 5,099.39	$ 3,657.04	$ 3,953.05	$ 9,161.78
EQUITY TO ACCOUNT FOR	$ 5,099.39	$ 3,657.04	$ 3,953.05	$ 9,161.78	$ 9,848.05
Less: Expenses advanced	$ 800.00	$ 900.00	$ 950.00	$ 900.00	$ 900.00
Invested in office machines	1,792.00	1,344.00	896.00	2,571.63	1,696.00
	$ 2,592.00	$ 2,244.00	$ 1,846.00	$ 3,471.63	$ 2,596.00
CASH IN BANK	$ 2,507.39	$ 1,413.04	$ 2,107.05	$ 5,690.15	$ 7,252.05

More "Dream Stations"

Band vertical for 2-Meter and 440 work.

This impressive array is turned by a Tailtwister rotor, controlled by a ProSearch, voice synthesizer control unit.

All VHF/UHF Bands covered with arrays on the 130-foot tower.

What kind of mast does it take to hold all this up? It's 21-feet long, made of 2-1/4-inch outside diameter 3/8-inch wall steel tubing, sporting 9600 pounds of tensile strength and held in place by three thrust bearings. The antennas feed Advanced Receiver Research mast-mounted preamps with 18 db. gain each.

Feedlines are all 7/8-inch foam dielectric heliax.

The Construction Crew

The construction crew of this mammoth project is made up entirely of members of the local Amateur Radio community. Antenna assembly was done by Sammy Davis, KB4NPK and Jim Covington, WA4YHH. Antenna erection was done by: Sammy Davis, Jim Covington, Jimmy Moore, KB4QHP; Steve Blizzard, KK4AT; Johnny Bryant, KB4KQI; Randy Smith, WA4HUV: F.L. Warford, K4AZA; Steve Warford, KA4PKJ; Roy Neal, K6DUE; and Keith Gleason, WD4PQZ.

The overall system was conceived by owner Randy Smith, and designed by F.L. Warford. Rig installation and connections were done by Jim Covington, F.L. Warford and Randy.

The equipment inside the shack is almost as impressive as the antenna system. We'll tell you about that in Part II, next issue of the Repeater Journal.

Seven months of construction - still much more to go.

Preliminary Test

F.L. Warford said Randy just had to try out one of the systems the other day. He reportedly got a good contact in the State of Oregon under normal band conditions, with an S-8 signal report, running 100 watts. Not much unusual about this, except Randy was on 80-METERS and didn't have his 80-meter monoband beam pointed at Oregon. He said on his inverted "V" 80-meter antenna, he couldn't even detect a signal there on his receiver, during the Oregon contact. (We guess his beam works!)

Next Issue: Part II, "Inside the Dream Station".

South Hill Repeater On Air

Hams in the South Hill, Virginia area now enjoy a two-meter repeater for their use. Operating on 147.24 mhz, N4OKH/R, provides coverage throughout Brunswick, Lunenburg, and Mecklenburg counties in Virginia. In addition, stations in Oxford, Henderson, and Norlina, North Carolina work the repeater.

Sponsored by Harry Allman, N4OKH, and Joe Avery, WB4EOT, the repeater uses a GE Mastr Pro, Sinclair duplexer, and Hustler 67 antenna at 120 feet. It is an open repeater and all are welcome to use it while traveling thru or visiting the area. Future improvements include a receiver preamp and possible linking with other repeaters to better serve Southside Virginia.

Thanks to Carter Cogle, K4ARO, Wally Burkette, WA4KXV, for SERA coordination and Lee MacDaniel, WB4QOJ, for duplexer alignment. Special thanks to N4OKH for locating a site to place the repeater in operation.

CLYDE'S LAW:

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FEATURES

- **Ultra-Compact**
  5-1/2" W x 1-9/16" H x 6-1/2" D, an ideal size for installation in today's compact automobiles.
- **Large LCD**
  Highly visible front Panel LCD is designed for easy viewing.
- **21 Memory Channels**
  21 fully-programmable memories. All offsets, encode and decode information and "locked out" memories can be programmed.
- **High RF Output**
  Provides a powerful 25 watts (or 45 watts with ALR-22HT), RF output power with a low power setter of approximately 5 watts.
- **Dual Digital VFOs**
  Features dual digital VFOs, with front panel selection. The two VFO's tune independently.
- **Memory Scan and Programmable Band Scan**
  - SCAN Button initiates memory scan. Skips memories in which no data is stored or are locked out.
  - UP or DOWN buttons on the microphone initiates band scan in the appropriate direction. Two selectable frequencies can be stored independently for scanning limits, if so desired.
  - In both memory and band scan, scanning stops on the busy frequency and automatically resumes 2 seconds after signal ceases.
- **Priority Function**
  With priority function selected, the unit scans back to the memory channel selected to monitor activity.
- **Easily Programmable Repeater Offsets**
  +/-600KHz: (ALR-22T and ALR-22HT) + /-5MHz: (ALR-72T) or simplex are selected by the front panel offset button.
- **16-Key Autopatch Up/Down Microphone**
  Encodes 16 DTMF tones. Up/Down switches provide step frequency change or initiate band scan.
- **Standard Tone Squelch — not an add-on option as with other manufacturers.**
- **Easily programmed Non-Standard Offset Frequency.**
- **Unit can be used for CAP or MARS operation with no modifications.**

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FEATURES

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  a. With Standard 450mAH Ni-Cd ..... 2W / 1W
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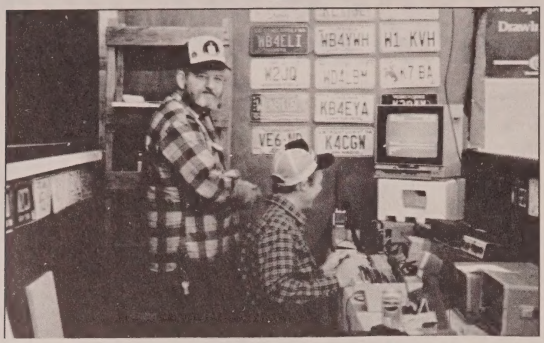
Hamming It Up At The County Fair



The Piedmont Amateur Radio Club near Nathalie, Va. demonstrated Amateur Radio to the County Fairgoers recently. The Amateur station set up, included RTTY which proved of great interest to onlookers. Sam Dunn, WB4ICF and Barry Fisher, KB4EYA manned the RTTY at the booth.

Getting together to plot strategy, members of the Piedmont ARC put finishing touches on their Amateur Radio booth at the County Fair. Participating were: Barry Fisher, KB4EYA; Bob Powell, WA4TMN; Charles Lowery, WA4BKZ and Andy Huff, WB4ICF. (Photo ctsy: Barry Fisher, Pres. PARS)

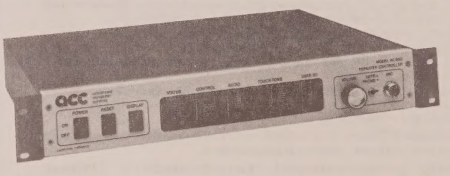
— by Barry Fisher, KB4EYA

The Piedmont Amateur Radio Club decided to let people in their area know what ham radio is all about. The club has a small membership and felt this would be good Publicity for the club as well as ham radio. We tried to demonstrate as many modes of operation as possible.

Among the equipment shown were two HF rigs, an Icom 745 and a Yaesu FT-101 EE. On two meters we used a Yeasu FT-726R. Packet radio, RTTY, and ASCII were all demonstrated.

The club contacted the various equipment manufacturers such as Icom, Yeasu, and Kenwood, and found that they were more than generous with brochures to give to interested ham and prospective hams. The ARRL also provided a wealth of information and brochures which were very much appreciated.

A good time was had by all involved who took turns working the booth. It was not only good publicity for ham radio but also a great way to fellowship with fellow hams in the area. The club felt the efforts were well spent and the week was a success as well as a lot of good hamming!



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The easy-to-use mailbox lets you include phone numbers, times, or frequencies in messages. The controller is so smart, it'll leave you a message if you miss a reverse patch or an alarm.

Selective call capabilities range from CTCSS and two-tone to display paging, so you can always be available without having to listen. Voice response telemetry lets you remotely meter your site. Its continuous measurements with storage of updated min and max readings let you find out how cold it gets, how high the reflected power reads . . . and when.

Individual user access codes, with callsign ID, offer secure access to selected functions to completely prevent horseplay.

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FCC News Briefs. . . . . received via W5YI Report and ARRL Letter

Kowalski Leaves

Ray Kowalski, Chief of the FCC Special Services Division, has left the Commission staff. He had served the FCC for the past 6 years, as the overseer of all the Commission's regulatory efforts in the Amateur Radio Service.

Kowalski has joined the legal staff of the prestigious Washington law firm of Blooston and Morkofski. As the Journal goes to press, no successor has been named to replace Kowalski.

Haller Promoted

Ralph Haller, N4RH, is the new Chief of the FCC's Private Radio Bureau. He replaces Robert T.N. Fitch who recently became the Senior Legal Advisor to the Chairman of the FCC, Dennis Patrick. Haller had been Acting-Bureau Chief since Fitch's departure from the FCC post.

Haller was the former Deputy Chief of PRB under Fitch.

Three Commissioners

The FCC has been operating with a shortage of two Commissioners for the better part of 1987. Two new commissioners should be joining soon. They are Washington Attorney Susan Wing, nominated to replace the term vacated by Mimi Dawson, and serve an additional term of her own.

Bradley Holmes, a former aide to FCC Chairman Patrick, has been nominated to fill the vacated Commissioners seat formerly held by Mark Fowler.

Three Commissioners do constitute a quorum, so the FCC has been able to continue its business, even with the shortage of personnel.

More 6-Meter

The Southern California 6-Meter Club and Southern California Repeater and Remote Base Association (SCRRBA) has asked the FCC in a petition, to amend the text of Part 97.85(h) to permit repeaters on the six meter band to operate below 52 mhz.

Current regulations require that FCC repeaters on 6-meters be operated above 52 mhz.

The petitioners say this rule has stunted the growth of 6-meter repeaters in regions where the potential for interference from Channel 2 TV exists.

As of now, the Commission has not assigned the petition a designation, or made any action on it.

In SERA territory, we have only 43 6-Meter repeaters, a decline of 3 since last year. Our 6-meter bandplan contains 48 FM repeater channels.

Two Actions Due

The FCC should be acting on two Petitions very shortly.

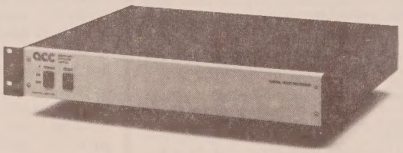
(1) The re-write of the Part 97 rules, which will address current technology and operating practices within the Amateur Service, and hopefully resolve some questions which had been heretofore unanswered with the present rules.

(2) PRB-3-Assignment of Amateur Calls of choice by a private organization. This action has been hanging for some time, with ARRL, Radio Amateur Callbook and several others requesting that they be assigned the task of SCSC (Special Callsign Service Coordinator.)

Another 220 Jab

TV Answer, Inc. of McLean Virginia has petitioned the Commission for an allocation of 500 khz from the 216-222 mhz band to implement a return radio circuit from TV set users to cable operators and/or broadcast stations via a hand-held remote control device. The TV Answer system has capability of digitally processing one million viewer responses per minute. They want to use the system for home shopping, banking, Pay TV Programming and TV/Cable survey services.

"The Digital Voice Recorder echos your thoughts"



ACC's Digital Voice Recorder allows you to remotely record your voice over the air using digital storage in its huge memory array. PCM recording results in the highest possible fidelity, so you're proud of how it sounds on your repeater.

The DVR's voice mailbox gives your repeater users computer bulletin-board like capability from any radio with a mic and Touch-Tone pad. With messages stored in voice, your users don't need special gear to enjoy the latest in communications technology (from anywhere).

Your repeater's IDs and other messages can consist of remotely recorded DVR audio tracks which can provide information to your users – about your system, club, meetings, and special events. And you can make your repeater the friendliest around. With its no-compromise high quality PCM digital audio processing, even famous celebrities can sound like they're live at your repeater site!

The DVR connects easily to your RC-850 or RC-85 controller. And one DVR can support up to *three* repeaters for a cost effective installation.

The Digital Voice Recorder is the neatest thing to happen to repeaters since ACC's repeater controllers. Request our audio demonstration tape so you can hear it for yourself.

acc advanced computer controls, inc.

2356 Walsh Avenue, Santa Clara, California 95051
(408) 727-3330

WEST ANTENNA SERVICE – YOUR SOURCE FOR ROHN TOWERS AND ACCESSORIES

Rohn 25-G Straight Sections

In addition to a large stock of straight tower sections, we also have flat and sleeved top sections, trust bearings, house brackets, short base sections, rotor plates, guy assemblies, guy wire, cable clamps, turnbuckles – you will need for a complete tower installation.

Utility Poles & Hardware

We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N.C. area.

Scotchkote Electrical Coating

Made by 3-M Co. Can be used for underwater connections also. A 15 oz. can will do 50 to 100 connections.

15-oz. can Scotchkote coating $8.00

WEST ANTENNA SERVICE HAS ROPE

ALL TYPES OF ROPE AVAILABLE

SIZES FROM NO. 4 TO 1-INCH
Call for Prices on Sizes and Types

West Antenna has a huge inventory of all types of synthetic rope in all sizes to fit your every need. Write or call for a free rope catalog. Large or small, your rope requirements can be met by us.

Some Types we Stock:

- **Unmanila – looks like manila . . . feels like manila . . . but it's not, it is a new polypropylene fibre**
- **Polypropylene – 3 strand twisted . . . a first class 3-strand twisted 100% mono filament polypropylene rope, twice as strong as manila.**
- **Mariner . . Diamond Braid Polypropylene rope, 8 strands, a real work horse. Easy to splice resistant to damage by rot, abrasion, oil grease.**
- **Twisted Nylon rope . . . regular 3-strand, medium lay nylon rope, the strongest rope in general use today. Will stand sudden shock.**
- **Solid braided Nylon Cord . . . very strong, soft lightweight, resistant to rot, abrasion, mildew, with shock absorbing elasticity.**

Plus many more kinds and sizes and strengths

Check These Rope Specials:
BLACK TWISTED POLYPROPHELENE

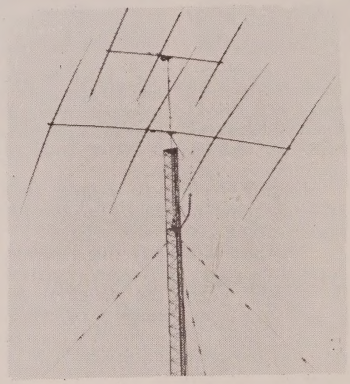
Good for dipoles or overhead supports on beams at a very low cost. Lasts two or three times longer in the sun than regular poly rope.

1/4-inch 4-cents/foot
600-foot spool 16.88
1,000-foot spool 26.88

3/8-inch 8-cents/foot
600-foot spool 37.50

Hard Line and Connectors

West Antenna Service can also supply 1/2 and 7/8-inch hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately 10 days.



BATTERY TAPS

Assembly provides connection to battery cable on the new side-terminal batteries, or any connection situation where terminals are not accessable. Slips over cable and set screw penetrates jacket for contact. Radio wire slipped into hole and second set screw tightens. Has proven quite adequate for high current needs.

Battery Taps ..... 4.95 ea.

POLYPHASER Lightning Suppressers

High quality commercial units. Low loss, low noise. Frequency range through 1 Ghz. Bulkhead and inline types available, including rotor cable and D.C. control lines. Call for prices.

2-way shops are urged to check for Dealer Pricing.

MISCELLANEOUS

PL-259 CONNECTORS (U.S. Made) .....65¢ ea.
10 or more .....60¢ ea.
UG-175 or 176 ADAPTERS.....30¢ ea.
10 or more .....25¢ pa.

Other Tower Accessories

Aluminum mast pipes, feature 2-inch OD 6061 tubing with 1/4-inch wall.

12-foot lengths, 19 lbs. - In Stock
24-foot lengths, 38 lbs. - In Stock

Touch rust spots on your tower and antenna bolts with RUSTOLEUM, cold galvanizing.

Large 20-oz. Industrial spray can ... $6.00

Stainless Steel Strapping Kits

Stainless steel strapping kits, for strapping hard line or multiple runs of Coax. Kits come with 25, 50 or 100-feet of stainless steel strapping and buckles.

25-foot strapping kit $18.00
50-foot strapping kit $25.00
100-foot strapping kit..... $36.00

FOR THE ULTIMATE MOBILE INSTALLATION

We have what you need — wire, fuse blocks, fuses, connectors, relays! You want your Mobile Low band or amplifier installation to work efficiently. We have the proper wire, fusing and parts needed for a perfect installation.

WIRE – Single Conductor-Stranded,
red or black vinyl insulation . .
#10 wire.....30¢ per foot #14 wire.....20¢ per foot

FUSE BLOCKS – Our fuse blocks are rugged holding fuses much larger than the little 3AG glass type. This prevents overheating and voltage loss with high currents. Set screws in end of fuse blocks will accept wire up to #6.

30-Amp Fuse Block $4.95
60-Amp Fuse Block $5.95

FUSES—5,6,7,8,10,20,25,30 Amp ....80¢ each
35,40,45,50 & 60 Amp. Fuses also available upon request.

RELAYS—These Motorola Type A style relays can be installed near the fuse block in the fenderwell and remotely switched under the dash with a small toggle switch. Excellent for switching high current lines. Relays are a closed type with screw terminals for mounting. .....Special $13.95

40-Amp cont. duty, solenoid-type, 12V 19.95
(Commercial Dealers, call For Dealer Prices)

OTHER ACCESSORIES AT GOOD PRICES!!

GUY WIRE INSULATORS – Compression-type porcelin. Approx 1½x2½-inches, 3/8-inch hole
Insulators .....$2.00 each 10 or more ....$1.80 each

STEEL WIRE – Zinc coated. Can be used for antennas or light guy wire, not recommended for tower guying. Sold in 10 lb. coils only.

#9 approx. 170-ft. $13.00
#12½ approx. 382-ft. $13.00

14-gauge Solid Copper THHN insul.
500-ft. spool $15.00

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SERA Repeater Computer Data Bank Taking Shape

With the acquisition of a second PC compatible computer for records keeping (see separate story), the realization of a complete data-bank via computer is quickly becoming a reality.

Until the present, most date involved with repeaters in SERA territory is filed in cabinets in their original hard copy form. Pieces are in hands of various Directors, with the records committee, and the master storage files.

The job of the second computer operator will be the correlation of this mountain of material into the Repeater Data Base.

David Ward, KA4LVO has written most of the programming for the new system and as time permits will continue to write more to complete the system.

The second computer, stored with the Journal Editor, who handles the repeater index for the Journal will run parallel with the master computer located with David Ward.

Wayne Williams, K4MOB will be charged with the responsibility of filling in the missing pieces of data on every repeater, and passing the information into the master computer data bank.

The two machines will be modem connected via telephone lines for direct-access when needed. Information will be gathered from information sheets filed by repeater owners in 1985 and 1986, and from future coordinations and information sheets filed by the Directors and repeater owners.

"This is our first step in getting ready for the National Data Base at ARRL Headquarters," Ward said. "We have needed a second person to research and keyboard the correlated information." "With this second computer located at Wayne's house, and his normal activities of correcting the index each quarter, we expect the system to work well, an dcut out some duplication."

Previously, changes have come to Williams from the Directors and repeater owners. He marked them down on a double-spaced printout, then passed them on to Ward for insertion into the computer.

The second system will allow direct entry into the computer changes as they come in.

Future plans are to write additional programming and pass copies to Directors who have PC compatible computers. A network of modems via telephone will hopefully emerge so that any Director desiring to see the "latest" information from any SERA State, can do so by calling up the computer at Wayne's house. The Directors will also have the capability of making changes to the listings in their own State.

Until that time, plans are within the next quarter, to allow Wayne to supply Directors two printouts: (1) Changes ONLY, which have been made to that states directory, and (2) a complete updated printout of each states directory.

This first step will solve problems that have occurred in the past of two Directors in adjacent States coordinating border repeaters, unaware of what is happening at the same time across the border.

As of this writing, Wayne is practicing the new program, getting a feel of how the system and program works, and getting bugs out that cause delays. David and Wayne are working together on the project as time permits.

Over 5 megabytes of information have already been fed into the new computer.

"When Wayne gets his feet wet, and has the program mastered, and can easily operate the system, we'll go back and download the whole system to his computer," David said, "Then as he adds data to the repeater data base, he will download changes to my computer." "This will allow us to parallel both systems, and allow me to feed repeater information as it comes in, to the membership information."

The SERA Board had voted to purchase the computer at the August 1987 meeting. The machine was brought down from Richmond, Va., on January 18th.

New EME Record

— via ARRL Letter

On January 5, a new record was established for EME contacts on 6-meters.

Ray Rector, WA4NJP in Georgia, and Mike Staal, K6MYC/KH6 in Hawaii, established the new distance record at 0940 UTC.

This was the first transoceanic 6-meter EME contact, and the ninth 6-meter EME contact made to date.

From The President

TO: All SERA Members

FROM; Pres. Carter Cogle, SERA

This has been an outstanding year for the Association. Some of the highlights include implementation of a comprehensive new coordination policy, changing our name, maintaining a solid financial status, publishing four first-class issues of the JOURNAL and holding an election in which you indicated your solid support of the job done by the incumbent management team. You are to be congratulated for your high level of participation in the election, with more than fifty percent of the ballots being returned. Thank you for your support of the SouthEastern Repeater Association and all of the dedicated directors, officers and staff members.

SERA Promotion Items Available to Members

Not knowing just how many participants we might have in the latest membership promotion, we ordered 250 calendars. Since not all were used in the promotion, we extend an offer to anyone wanting their own full-color 1988 SERA calendar. Just send $1.50 to SERA Promotions, P.O. Box 24292, Winston-Salem, NC 27114-4292. This amount includes postage to get yours to you by return mail.

In addition, we still have a good supply of rear-adhesive SERA decals introduced a couple years ago. You can obtain your decal for 50 cents each by sending your request to the address listed above.

Finally, we have about 30 hats remaining from the original 12 dozen received two years ago. You can get one by sending $7.50 ($6.00 per hat plus 1.50 shipping) to the same address for calendars and decals.

As you might expect, "Offers good only while supplies last".

Membership Promotion Was Termed Successful

Last issue's editorial and a quickly made form on page 47 mentioned the 1987 Christmas Membership Gift promotion that ran through December 31, 1987. Each year, our existing membership normally gives a few gift memberships to other hams, but this year, we added some incentive. Each membership given gave the donor three months (1 Repeater Journal) of membership tacked on to the end of his/her existing membership AND a 1988 calendar. The recipient was sent a letter telling them of the donor's action.

The promotion is over and the results are impressive. Thirty-two SERA members took advantage of the offer by giving 35 non-members gift memberships in SERA. Letters and calendars have been sent to all participants. My thoughts have now turned toward membership promotions for 1988.

Thanks to all the donors for their support in making this promotion a success.

Repeater Growth Continues in SERA

— by Wayne C. Williams, K4MOB
Editor, The Repeater Journal

Repeaters passed the 1,000 mark in the seven SERA States in 1987. An increase of 68 machines brought up the total to 1,059 repeaters, which were counted during the first week of January, the standard base counting period each year by the staff of the Repeater Journal.

The totals, which do not include Digipeters, moved from 991 at the base period in January 1987. Georgia had the largest growth of repeaters, with 23, followed by Virginia with 21. Tennessee had 13 more repeaters added during the year. North Carolina added only 3, South Carolina had 1 more, West Virginia 1, and East Kentucky 8.

In terms of total number of repeaters, Tennessee now leads SERA territory with 222 machines, passing North Carolina, which dropped to third with 214 repeaters. Georgia is second with 219 repeaters. Virginia has 193, South Carolina has 83, West Virginia has 91, and East Kentucky 39.

Digipeters grew by leaps and bounds in 1987. Although they do not count as repeaters, records indicate that the seven states gained 56 digipeters during the past year. Both Tennessee and Georgia boast 30 of the machines, with East Kentucky claiming 18, North Carolina 11, South Carolina 10 and West Virginia 6. (To be listed as a digipeter, the machine must be unattended, and operational 24 hours a day, and not used as a personal packet TNC in the owners shack). The biggest digital growth in digipeters occurred in Tennessee where the number increased by 23. East Kentucky increased by 17. The rest were under 10.

The 220 mhz band grew the strongest in 1987 with a 12% increase in repeaters across the 7 States. Two meters was second with 18 new machines, followed by 440 mhz with 15 machines. Ten Meters added 7 machines. Six Meters saw a decline of 3 machines in 1987.

(It should be noted that new numbers mentioned above include totals at the new base measuring period. During the year, more machines may have come on the air, but in some cases others came off, so the final tally is what was counted, and compared against the same base period in January, 1987.)

Please see the chart on the outer column which gives a breakdown by State, by band of repeaters from 1983 thru 1988.

GEORGIA NEWS

— by Jim Abercrombie, N4JA

We have purchased a new computer system to aid in record keeping for our District of Georgia. We urgently need a listing of your Longitude and Latitude coordinates of your repeater(s) in order to calculate exact distances between repeaters. If this information is not provided by each repeater owner, the longitude, latitude of the city listed, we will have no alternative but to measure from city to city for distances for coordination for future repeaters.

• • • •

A group of repeater owners from Macon, Vidalia, Hinesville, Lyons, Savannah and Augusta met in Vidalia on December 19th to discuss plans to link up repeaters in Southeast Georgia. No definite plans were formalized, but Dublin and Macon are now linked. N4JA and AA4UA from Augusta are now building linking equipment and will try to link other repeaters. Several repeaters in the North Atlanta Metro area are currently linked with Dalton, Calhoun, Jasper and Chattanooga.

• • • •

A dispute between two repeater owners in the Metro Atlanta area over a 220 mhz frequency pair was mediated at the Atlanta FCC office by Ms. Rose Bond, FCC Liason Chairman, and Jim Abercrombie, Georgia SERA Director. Both owners were claiming coordination of the pair, one by a prior coordinator. The parties met and a plan agreed to by all parties to settle the dispute was formulated. This is an example of Coordination and cooperation working.

• • • •

The Georgia-Lina Hamfest and Computer Fair will be held on Sept. 17 and 18 this year in Augusta, at a location to be announced later. For more information, contact N4JA, Jim at (404) 790-7802.

• • • •

WCARS/VEC team gives Amateur exams on the first Saturday in each month at the Bible Baptist Church on U.S. 1, 200 yards South of Interstate 520 in Augusta, Ga. For more information, contact Jim Abercrombie at (404) 790-7802.

Knoxville Hamfest Goes To One Day

The Knoxville Tennessee Hamfest had to be moved back a week in May this year because of a conflict in scheduling at the Hamfest Site. Ray Adams, N4BAQ said the Karbella Shrine Temple was available only on May 21, a Saturday, for the Knoxville Show.

The club said they hoped the date change would not inconvenience Amateurs who normally attend the Knoxville show, which is usually held the last weekend in May.

Technical Articles Needed

SERA TERRITORY REPEATER GROWTH BY STATE (DISTRICT) SINCE 1984. UPDATES ARE CALCULATED IN JANUARY OF EACH CALENDAR YEAR.

DIST	10-METERS '84	'85	'86	'87	'88	6-METERS '84	'85	'86	'87	'88	2-METERS '84	'85	'86	'87	'88	220-MHZ. '84	'85	'86	'87	'88	440-MHZ. '84	'85	'86	'87	'88	DIGIPETERS* '84	'85	'86	'87	'88	TOTALS 7 STATES '84	'85	'86	'87	'88	
NC	0	2	3	2	2	9	9	9	10	6	133	143	144	140	141	24	25	28	27	30	14	25	36	32	33	0	0	6	8	11	180	204	220	211	214	NC
SC	0	0	0	0	0	3	2	3	3	2	60	62	63	65	64	4	8	5	5	6	5	9	12	9	11	0	0	3	8	10	72	81	83	82	83	SC
TN	2	1	2	2	6	6	6	7	10	10	137	139	133	138	139	14	14	14	16	21	29	31	35	43	42	0	0	5	7	30	158	191	191	209	222	TN
VA	1	3	2	2	5	15	14	12	13	13	104	111	108	111	118	7	10	10	10	17	25	37	36	36	40	0	0	4	23	29	152	175	168	172	193	VA
WV	0	0	0	0	0	0	1	6	6	5	57	64	71	71	71	2	2	2	3	4	3	3	5	10	11	0	0	2	5	6	62	70	84	90	91	WV
EKY	-	-	0	0	0	-	-	0	1	2	-	-	22	25	32	-	-	2	4	4	-	-	1	1	1	-	-	0	1	18	--	--	25	31	39	EKY
GA.	-	-	2	4	4	-	-	3	3	5	-	-	142	138	142	-	-	12	16	23	-	-	25	35	44	-	-	19	26	30	--	--	184	196	219	GA
TTLS	3	6	9	10	17	33	32	40	46	43	491	519	683	688	707	51	59	73	81	105	76	105	150	166	182	0	0	39	78	134	624	721	955	991	1059	

OTHER REPEATERS: 900MHZ-NC-2 TN-2 1270MHZ GA-1 TN-2

* PACKET DIGIPETERS WERE NOT COUNTED UNTIL 1986.. DIGIPETERS ARE NOT COUNTED IN TOTAL # OF REPEATERS FOR ANY STATE.
* E.KENTUCKY AND GEORGIA NOT COUNTED UNTIL 1986.

SANTEC FM-240 for 2-Meters

Santec-Nology Strikes Again!

CPU Addressable Prompt System Helps You Program the Advanced New Santec FM-240. All Tuning Done with only one Button (Enter) and the Main Tuning Knob. The Simplest Radio with the Most Features on The Market.

The Santec FM-240 Has All the Features, Is The Smallest and Easier To Operate Than All The Other Transceivers On The Market Today. The Only Thing You Aren't Paying for is Expensive Color Ads. You're Paying for Technology - Santec-nology. Don't Let A Name Throw You - Let the Radio Convince You. The Santec FM-240 Will Do Just That - We Guarantee It.

$349.00

List Price $399.95

Optional Accessories

Voice Synthesizer Module	$43.95
Sub Tone Encode/Decode Module	$25.95
Extra Mobile Bracket	$10.95
Extra Fused Power Cable	$8.95

FREE UPS Shipping
NO Credit Cards
N.C. Res. Add 5% Tax
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Here's what the Fabulous FM-240 will do:

- 25 watts and 5 watts output
- 16 memory channels and a priority channel
- Automatic offset programmable. (odd Offsets too)
- Four Different modes of scan, programmable in each channel
- Second VFO tracks your dial readout
- Reverse or simplex your repeater - push a button!
- Priority Channel with priority alert system
- SIMPLE to program - ONE button, ONE knob!
- TINY! Only 1-1/2H x 5-1/2W x 6-5/8D (Inches)
- 16-position Touchtone pad Speaker Mike-Standard!
- Up/Down, Tune, scan, lock-switch on speaker mike
- Distinctive Alpha-Numeric LCD readout system
- CPU Addressable "Prompt System" helps you program
- Optional Voice Synthesizer - plugs in simply!
- Optional sub-audible tone Encode & Decode - plugs in.
- Comes with mobile bracket, speaker microphone w/TT pad, power cord, mike hanger, and easy-to-read manual.
- 90 day Full Warranty-plus the ENCOMM exclusive 2-year Service Warranty. (Details upon request)
- The Exclusive Williams guarantee. If you receive your FM-240 and it doesn't work - we send you a new one!
- Covers 2-meters, CAP and MARS and more!

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THE SERA OFFICIAL REPEATER INDEX

The Official Sera Repeater Journal index of Repeaters is the property of Southeastern Repeater Association, Inc., the official Coordinating council for Virginia, North Carolina, South Carolina, Tennessee, West Virginia, East Kentucky and Georgia. Updated computerized listings are published each quarter in the REPEATER JOURNAL. Permission is given, without writing, to individuals, clubs, or organizations to use or reprint any or all of the index, provided appropriate credit is given. SERA will not be responsible for incorrect or omitted listings. The responsibility of correct listings are those of the repeater owner. We make every attempt to keep the index as accurately as possible with information provided. The SERA repeater list contains certain repeaters which are not on the official band plan. Others are uncoordinated repeaters. SERA does not necessarily condone or recognize such repeaters as being legal. They are listed primarily to keep our readers informed of ALL repeaters known in the area. Repeater owners are reminded to contact their State Director for listing changes, coordination problems, or any other assistance required concerning repeaters.

DISTRIBUTION OF REPEATERS BY FREQUENCY

The By-City Index Appears On Following Pages

2 METERS

7.43 /4.93	M	LYNCHBURG	VA
4.51 /5.11	TUN	AUGUSTA	GA
	VTA	DECATUR	GA
	RXG	SAURATOWN MT	NC
	JMT	MYRTLE BEACH	SC
	JSD	KNOXVILLE	TN
	YPE	RICHMOND	VA
	MCR	SALT ROCK	WV
4.53 /5.13	SEX	NEWNAN	GA
	VLP	VALDOSTA/TIFTON	GA
	YNF	AHOSKIE	NC
	CS	GREENWOOD/HODGES	SC
	CMY	CHATTANOOGA-RTTY	TN
	OAK	LAFOLLETTE	TN
	VL	GALAX/LKOUT MT	VA
	FHE	BUCKHANNON	WV
4.55 /5.15	IWZ	PIKEVILLE	EKY
	MM	ALBANY	GA
	AQL	ATLANTA	GA
	LI	MILLEDGEVILLE	GA
	UDS	MORENTN/HI PK	NC
	CVM	RANDLEMAN/GBO	NC
	RJC	DECATUR-PONE KB	TN
	HCK	FRANKLIN	TN
	JE	JAMESTOWN	TN
	ARO	PETERSBURG	VA
	DBN	MARMET/BEE MT	WV
	FSE	MARTINSBURG	WV
4.57 /5.17	DIW	JONESBORO	GA
	ZQB	NEWTON/ANDSN MT	NC
	EKK	OXFORD	NC
	V	LOUDEN	TN
	LHO	SMYRNA	TN
	DKL	BOLT/BOLT MT	WV
4.59 /5.19	IQT	BIRMINGHAM(AL)	GA
	ULJ	PINE MT/HAMILTON	GA
	BVW	MT MITCHELL	NC
	XX	JASPER	TN
	DOR	LEBANON	TN
	B	RICHMOND	VA
	JGY	WHEELING	WV
4.61 /5.21	U	DEAN	EKY
	PSZ	TYRONE	GA
	ITL	TRENTON	NC
	NEP	GASTON	SC
	BBB	KNOXVILLE	TN
	MS	KILMARNOCK	VA
	FEQ	HUNTINGTON	WV
4.63 /5.23	PPM	MIDDLESBORO	EKY
	JF	ADEL	GA
	JEH	CONYERS	GA
	UJ	DALTON	GA
	BFB	CHARLOTTE	NC
	RA	LAVERNE	TN
	DBB	BEDFD/APL ORCH	VA
	UMI	YORKTOWN	VA
	K	LOGAN/BLAIR MT	WV
4.65 /5.25	BLQ	CLAYTON	GA
	BZJ	DALTON	GA
	KQK	FOREST PARK	GA
	AZM	GREENSBORO/GLD H	NC
	URP	CHARLESTON	SC
	DRL	MEM/FISHERVILLE	TN
4.67 /5.27	PN	WALESKA/PNLGMT	GA
	KNI	HENDSVL/BERWLW M	NC
	BEA	RALEIGH	NC
	WZK	HENDERSONVILLE	TN
	CJX	SEV/SHIELDS MT	TN
	JCE	MANASSAS	VA
	OG	CRAIGSVILLE	WV
4.69 /5.29	ICN	PRESTONSBURG	EKY
	DRQ	ATLANTA	GA
	BFB	CHARLOTTE	NC
	ACP	MAYODAN	NC
	PPD	SHALLOTTE	NC
	VCM	CHATTANOOGA	TN
	SQC	HOLSTON MT/E TN	TN
	FFM	NASHVILLE	TN
	NDH	CHESAPEAKE	VA
	FMD	CHARLESTON	WV
4.71 /5.31	CEK	COLUMBUS	GA
	JDR	STOCKBRIDGE	GA
	ITL	BURLINGTON	NC
	ITL	ROANOKE RAPIDS	NC
	RFA	ROCK HILL	SC
	GRC	ATHENS	TN
	SC	JACKSON	TN
	FSC	ALEXANDRIA	VA
	BZS	LAYLAND/MANN MT	WV
4.73 /5.33	OGE	JONESBORO	GA
	J	MT AIRY/TRNR MT	NC
	DFP	BAMBERG	SC
	GMT	CUMBERLAND CTY	TN
	TAG	HICKORY VALLEY	TN
	TEM	KNOXVL/SHARPS RG	TN
	OOI	FARMVILLE	VA
	VNQ	PARSONS	WV
	FR	WILLIAMSON	WV
4.75 /5.35	R	HARLAN	EKY
	DOC	ATLANTA	GA
	FGQ	ROSSVILLE	GA
	AOS	CHARLOTTE	NC
	DAN	GREENVILLE	NC
	Y	HUMBOLDT	TN
	JYD	NASHVILLE	TN
	AZJ	BLAND	VA
	AQD	FALLS CHURCH	VA
4.77 /5.37	UA	AUGUSTA	GA
	ACH	COLUMBUS-RTTY	GA
	IZF	JASPER	GA
	AGN	N. WILKESBORO	NC
	GRC	KNOXVILLE	TN
	CBF	MT JULIET	TN
	IMI	GLOUCESTER	VA
	FWL	BECKLEY/EOC	WV
4.79 /5.39	HYB	GRIFFIN	GA
	NJ	MONROE/UCARS	NC
	TZ	CHATTANOOGA	TN
	EPC	GREENEVILLE	TN
	DOR	HERMITAGE	TN
	VM	STANTONVILLE	TN
	ZIV	GALAX	VA
	EQM	WESTON	WV
4.81 /5.41	PME	ATLANTA/BELL	GA
	XO	HIGH POINT	NC
	KNU	WILLIAMSTON	NC
	TUO	GREENEVILLE	TN
	FHE	BUCKHANNON	WV
	SLI	CHARLESTON/HTGN	WV
4.83 /5.43	LCI	ATLANTA/SWEAT MT	GA
	VBA	LINEVILLE(AL)	GA
	OLL	MACON	GA
	ITL	SPARTA/GREEN MT	NC
	HWU	COLUMBIA	SC
	UCE	COOKEVILLE	TN
	SQT	RICHMOND	VA
	WHQ	CHARLESTON	WV
	LG	MORGANTOWN	WV
4.85 /5.45	TX	LEXINGTON	EKY
	BOC	STONE MT	GA
	PLY	CROWDERS MT	NC
	WTX	DURHAM	NC
	GRW	NEWPORT	NC
	LWY	ALCOLU	SC
	SIR	BENTON	TN
	E	SPRING HILL	TN
	SXZ	WELCH	WV
4.87 /5.47	CLA	ATLANTA/SWEAT MT	GA
	GIC	SAURATOWN MT	NC
	OXE	INMAN	SC
	GBI	KNOXVILLE	TN
	OMO	MOUNTAIN CITY	TN
	ARK	NASHVILLE	TN
	EFJ	ARLINGTON	VA
	FG	KINGSTON/LICK KB	WV
4.89 /5.49	JA	AUGUSTA	GA
	RWS	CORDELE	GA
	QPL	MARIETTA	GA
	ZCZ	FRANKLIN	NC
	CBI	RALEIGH	NC
	ABW	RKY RDG/WALLACE	SC
	KKO	MCMINVL/SHT MT	TN
	KOG	MEMPHIS	TN
	MOP	BLUEFIELD	VA
	OHX	NEWPORT NEWS	VA
	MOP	BLUEFIELD	WV
6.895/6.295	T	HARTWELL	GA
6.01 /6.61	FIZ	COLUMBUS	GA
	BDP	WARNER ROBINS	GA
	SNI	GREENSBORO	NC
	JMS	NEW BERN	NC
	GY	CHELSEA	SC
	NYK	GRNVLE/CSRS HD	SC
	JMT	MYRTLE BEACH	SC
	CMY	CHATTANOOGA	TN
	PCD	NASHVILLE	TN
	LSP	BRUMLEY MT	VA
	GSP	CHESAPEAKE	VA
	WWQ	LYNCHBURG	VA
	MZI	GASSAWAY	WV
6.025/6.625	UPE	UNION CITY	GA
	JWP	VIDALIA	GA
	QWK	LAURINBURG	NC
	GBI	KNOXVILLE	TN
	ZQX	MARTIN	TN
	AVW	NEW MARKET	VA
	BZS	FLAT TOP/WINTERP	WV
6.035/6.635	JNC	DANTE	VA
6.04 /6.64	YZY	PINEVILLE	EKY
	LWT	AUGUSTA	GA
	FWD	CARROLLTON	GA
	GVG	WAYCROSS	GA
	YAO	HENDERSONVILLE	NC
	DW	RALEIGH	NC
	GIC	WINSTON-SALEM	NC
	P	SUMTER	SC
	RX	CROSSVILLE	TN
	KQQ	MEMPHIS	TN
	NTM	NASHVILLE	TN
	WIC	FINCASTLE	VA
	BIW	MARION	VA
	OEY	RICHMOND	VA
	EZR	HUNTINGTON/CHAS	WV
6.055/6.655	NFP	MARIETTA	GA
	CEB	CONCORD/KANNAP.	NC
	VTX	ELIZABETH CITY	NC
	ABU	BROWNSVILLE	TN
	Z	CHATT/SIGNAL MT	TN
	PDP	ALEXANDRIA	VA
	ISI	ALTAVISTA	VA
6.06 /6.66	BKM	MACON	GA
6.07 /6.67	VHF	HAZARD	EKY
	NSO	GAINESVILLE	GA
	EQL	JESUP	GA
	ZIN	BURLINGTON	NC
	TMT	CHERRY MT	NC
	SJ	HALIFAX	NC
	ILW	BRISTOL	TN
	BGW	LAFOLLETTE/WMT	TN
	NTM	NASHVILLE S.W.	TN
	HZS	BARREN SPRINGS	VA
	ZR	LEXINGTON	VA
	NTG	WILLIAMSBURG	VA
	JNU	RAVENSWOOD	WV
6.08 /6.68	IQT	LEEDS(AL)	GA
6.085/6.685	IWL	ADAIRSVILLE	GA
	UWN	FAYETTEVILLE	GA
	NBR	GRIFTON	NC
	O	STATESVILLE	NC
	CO	NEWBERRY	SC
	PIO	LENOIR CITY	TN
	Q	WAVERLY	TN
	HTA	VIENNA	VA
	FMD	CLARKSBURG	WV
6.10 /6.70	JO	GRAYSON	EKY
	MM	ALBANY	GA
	OOM	JASPER	GA
	DOJ	MILLEDGEVILLE	GA
	NLX	SAVANNAH	GA
	CID	DUNN	NC
	PAX	LANCASTER	SC
	UOT	MANCHESTER	TN
	UFT	MEMPHIS	TN
	YGM	UNION CITY	TN
	WQS	DANVILLE/WHT OAK	VA
	BHH	DUFFLD/POWLL MT	VA
	D	NORFOLK	VA
	XD	STAUNTON	VA
	JNU	RAVENSWOOD	WV
6.115/6.715	ABZ	RINGGOLD	GA
	GGN	MILLERS CREEK	NC
	KDC	SPRING LAKE	NC
	NEP	COLUMBIA	SC
	I	BLACKSBURG	VA
	TXE	STERLING	VA
	GL	SHERRARD	WV
6.13 /6.73	SWF	LOUISA	EKY
	MM	ALBANY	GA
	NC	ATLANTA/SWEAT MT	GA
	TVE	BRUNSWICK	GA
	FT	MARIETTA	GA
	BWC	RALEIGH	NC
	EXU	SALISBURY	NC
	VNK	WILMINGTON	NC
	FKJ	N. AUGUSTA	SC
	BJY	SIMPSONVILLE	SC
	IOB	KNXVL/ENG MT	TN
	VZ	LEBANON	TN
	DAZ	MEMPHIS	TN
	DHO	HAMPTON	VA
	AVZ	ALDERSON	WV
6.145/6.745	BKF	ATHENS	GA
	N	DILLON/PEE DEE	SC
	HF	DYERSBURG	TN
	QOJ	ROANOKE/POOR MT	VA
	FMD	ELK GARDEN	WV
6.16 /6.76	BOC	ATLANTA/STONE MT	GA
	APS	VALDOSTA	GA
	BVW	ASHVL/MT PISGAH	NC
	MSS	GREENSBORO	NC
	S	SWANSBORO	NC
	THL	WILSON	NC
	ILT	CHARLESTON	SC
	OCB	FT JACKSON	SC
	LSP	BRISTOL/HLSTN MT	TN
	PQP	NASHVILLE	TN
	TFZ	CHARLOTTESVILLE	VA
	STE	LYNCHBURG	VA
	VA	HUNTINGTON	WV
	CUL	MORGANTOWN	WV
	JDH	WHEELING	WV
6.175/6.775	KE	MARIETTA	GA
	OCB	WRENS	GA
	BFB	CHARLOTTE/RTTY	NC
	DHW	ELIZABETHTOWN	NC
	JVO	PULASKI/MUS MT	TN
	MUQ	WYTHEVILLE	VA
6.19 /6.79	GEL	PIKEVILLE	EKY
	DMK	FOLKSTON	GA
	KOW	MOULTRIE	GA
	SEX	NEWNAN	GA
	VYX	SWAINSBORO	GA

Continued On Next Page

REPEATERS BY FREQUENCY

	LZD	CLINTON	NC
	LDK	SAURATOWN MT	NC
	FVV	ANDERSON/SAS MT	SC
	LT	CHARLESTON	SC
	DSK	CHATTANOOGA	TN
	ABR	JOHNSON CITY	TN
	SQE	NASHVILLE	TN
	SD	CHESAPEAKE	VA
	LBL	FAIRFAX	VA
	CFT	OAK HILL	WV
6.205/6.805	NNE	GUTHRIE	EKY
	LT	MILLEDGEVILLE	GA
	EWG	FAYETTEVILLE	NC
	NOQ	GASTONIA	NC
	NHA	GUTHRIE (TN/KY)	TN
	HTI	COVINGTON	VA
7.405/6.805	AQS	CALHOUN	GA
	HCY	MAGGIE VALLEY	NC
6.22 /6.82	MM	ALBANY	GA
	DOC	ATLANTA	GA
	PZA	ROARING GAP	NC
	GMP	WILMINGTON	NC
	NYK	GRNVLE/PARIS MT	SC
	U	ST. MATTHEWS	SC
	OAH	LAKE CITY	TN
	BS	MEMPHIS	TN
	UEW	WINCHESTER	TN
	RKC	WINCHESTER	VA
	IFS	CHARLESTON	WV
6.235/6.835	OCB	THOMPSON	GA
	QCO	ASHEVILLE	NC
	JXG	NAGS HEAD/BODIE	NC
	IAT	WADESBORO	NC
	DCX	GRUNDY/BIG A MT	VA
	ECM	RICHMOND	VA
7.435/6.835	BPV	HIGH POINT	NC
6.25 /6.85	IXA	PIKEVILLE	EKY
	DVJ	DALLAS	GA
	R	LAGRANGE	GA
	HON	WARNER ROBINS	GA
	CYP	GOLDSBORO	NC
	MDW	HICKORY/BRT. MT	NC
	YFT	REIDSVILLE	NC
	ULH	FLORENCE	SC
	KJH	GTLBG/COVE MTN	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	MG	PORTSMOUTH	VA
	ZBP	STAUNTON	VA
	BO	BECKLEY/FLAT TOP	WV
	WYH	BUCKHANNON	WV
6.265/6.865	DKY	MADISON	GA
	YF	BIG KNOB/GREY CT	SC
	G	FAYETTEVILLE	TN
7.465/6.865	ZRS	WAXHAW	NC
6.28 /6.88	U	MAYTOWN	EKY
	AGO	COLUMBUS	GA
	BTI	MARIETTA	GA
	NKL	QUITMAN	GA
	HBB	SAVANNAH	GA
	ITL	RALEIGH	NC
	NYR	SHELBY	NC
	AVU	COLUMBIA	SC
	CYZ	BRISTOL	TN
	ETE	MEMPHIS	TN
	PCD	NASHVILLE	TN
	SKH	OAK RIDGE	TN
	CYZ	BRISTOL	VA
	ZBE	RICHMOND	VA
	PDL	SALEM	VA
	CQV	CHARLESTON	WV
6.295/6.895	YFF	MADISON	NC
	KXV	VIRGINIA BEACH	VA
6.30 /6.90	ACN	JASPER(AL)	GA
	SP	FAIRMONT	WV
6.31 /6.91	GFY	MAREHEAD	EKY
	FOW	CLEVELAND/LONG	GA
	HYB	GRIFFIN	GA
	ZGQ	AHOSKIE	NC
	MOE	ASHVL/SPIVEY MT	NC
	YZF	FAYVLLE/CFARS	NC
	IZM	LEXINGTON	NC
	BWZ	WHITE HALL	SC
	DQU	SAVANNAH	TN
	YXA	SHORT MTN	TN
	AXH	CHASE CITY	VA
	OVC	JONESVILLE	VA
	TUE	MT. LK/BALD KNB	VA
	FMD	TYSONS CORNER	VA
	ULB	MCMECHEN	WV
6.325/6.925	ASI	COVINGTON	GA
	CWZ	ROCK HILL	SC
	TFZ	CHARLOTTESVILLE	VA
	GJQ	DANVILLE(DOC)	VA
	OGY	PRINCETON/PIPEST	WV
6.34 /6.94	SN	ASHLAND	EKY
	N	AUGUSTA	GA
	VO	ROME/MT. ALTO	GA
	RVB	WRIGHTSVILLE	GA
	DLH	BURGAW	NC
	BFB	CHARLOTTE	NC
	BFT	DURHAM	NC
	ACY	MANTEO/WANCHESE	NC
	ZAS	MT AIRY-RTTY	NC
	IQQ	GREENVILLE	SC
	GBI	KNOXVILLE	TN
	BN	MEMPHIS	TN
	PCD	NASHVILLE	TN
	UMI	HAMPTON	VA
	ZA	RICHMOND	VA
	QET	ROANOKE	VA
	CSW	NEW MARTINSVILLE	WV
	VKB	SUMMERSVILLE	WV
	JN	WEIRTON	WV
7.54 /6.94	CSW	NEW MARTINSVLLE	WV
6.355/6.955	KIN	PERRY	GA
	PRE	ROCKY TOP MT	GA
	ULA	ROCKINGHAM	NC
	MZ	ONEIDA PEAK/BLF	VA
6.37 /6.97	OD	ATLANTA	GA
	HBB	SAVANNAH	GA
	ZAS	MT AIRY	NC
	JO	SMITHFIELD	NC

	SZ	ANDERSON	SC
	ISM	FLORENCE	SC
	TRC	KNGSPT/BAYS MT	TN
	MWQ	MCMINNVILLE	TN
	BEZ	MEDINA	TN
	SKH	OAK RIDGE	TN
	FPM	MANASSAS	VA
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	DRV	LOGAN/WARD RK MT	WV
	CRW	PARKERSBURG	WV
6.385/6.985	I	AUGUSTA	GA
	HHH	ELLIJAY/TALONA M	GA
	TOV	PRESTON	GA
	OGB	ALBEMARLE	NC
	ROZ	MARION	NC
	ESG	MT PLEASANT	SC
	CA	ROANOKE/POOR MT	VA
6.40 /7.00	NNO	ATLANTA	GA
	LDK	HIGH POINT	NC
	FVO	JACKSONVILLE	NC
	YLT	MARION	SC
	YXZ	PICKENS	SC
	FZJ	MEMPHIS	TN
	HMT	SUFFOLK	VA
	GDY	ST ALBANS	WV
7.60 /7.00	WAU	ELKHORN CITY	EKY
	UM	HINESVILLE	GA
	DXZ	LANETT(AL)	GA
	KMG	BLOUNTVILLE	TN
	ZOK	CHATT/SIGNAL MT	TN
	TEQ	CLARKSVILLE	TN
	ZR	TERRA ALTA	WV
7.615/7.015	MST	BON AIRE	GA
	FOW	CLEVELAND/LONG	GA
	KPF	LK NORMN/CLT	NC
	UMU	SUMTER	SC
	RHV	HARRIMAN	TN
	K	NASHVILLE	TN
	YQM	UNION CITY	TN
	LNT	FREDRICKSBURG	VA
6.43 /7.03	YTZ	ROCK HILL	SC
	LQH	LEXINGTON	TN
	ODR	MILLINGTON/NB	TN
	JST	RICHMOND	VA
7.63 /7.03	REI	ATLANTA/AIRPORT	GA
	GQ	GREENSBORO	NC
	DTS	ROANOKE RAPIDS	NC
	FOF	BARNWELL	SC
	JYR	MYRTLE BEACH, N	SC
	NIQ	FAYETTEVILLE	TN
	ZJM	MEMPHIS	TN
	PRQ	MORRISTOWN	TN
	BLD	WAYNESBORO	VA
	IT	MULLENS/HRNDN MT	WV
	ECC	ST MARYS/BENS R	WV
6.445/7.045	FLR	FAYETTEVILLE	NC
	CNS	ROB/JOANNA BLD	NC
	YVM	ARLINGTON	VA
7.645/7.045	ZUN	JEFFERSON	GA
	TYM	METTER	GA
	JRL	STATSVL/ASBRY MT	NC
	WRN	STAUNTON/EL. KB	VA
	SBC	VIRGINIA BEACH	VA
6.06 /7.06	JYR	MADISON	WV
6.46 /7.06	CQ	CHARLOTTE	NC
	MQQ	MEMPHIS	TN
	LBM	VOLENS	VA
	WL	PRINCETON	WV
7.66 /7.06	DDI	MACON	GA
	CLA	ROSWELL	GA
	UCJ	THOMASVILLE	GA
	LED	MACO	NC
	VFR	SUMTER/SHAW	SC
	LYF	GRNVLE/GRYSTN	TN
	QEB	SHELBYVILLE	TN
	EOM	CHESTERFLD CO	VA
	KNM	POINT PLEASANT	WV
6.475/7.075	VGZ	BURLINGTON	NC
7.675/7.075	JXR	SNELLVILLE	GA
	HBQ	BURLINGTON	NC
	YJB	NEWTON	NC
	BVO	CLARKSVILLE	TN
	GBI	KNOXVILLE	TN
	PNT	WAYNSBR/BEAR DEN	VA
7.69 /7.09	NDB	FLAT GAP	EKY
	YK	PHELPS	EKY
	CVE	ST SIMONS ISL	GA
	GDF	GREENVL/ESTN NC	NC
	OXE	SPARTANBURG	SC
	BSA	SPARTA/BON AIR	TN
	VL	GALAX/BRIRP MT	VA
7.705/7.105	YSB	ATLANTA	GA
	D	STATESBORO	GA
	GHH	MARION	NC
	JCK	MONROE	NC
	JBJ	BEDFORD	VA
	VNQ	MT STORM	WV
7.72 /7.12	ASZ	WINCHESTER	EKY
	MM	ALBANY	GA
	S	AUGUSTA	GA
	CMA	CEDARTOWN	GA
	REW	GAST/SPCR MT	NC
	IKY	GIBSONVILLE	NC
	EWL	ROCKY MOUNT	NC
	YGE	MYRTLE BEACH	SC
	DAZ	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	FAF	CULPEPPER	VA
	DKM	BRIDGEPORT	WV
	VKI	DUNBAR	WV
7.735/7.135	BZJ	DALTON	GA
	JFE	VALDOSTA	GA
	CJS	BREVARD/RICH MTN	NC
	ABW	CHERAW	SC
	EDS	ALAMO	TN
	AZJ	PEARISBURG	VA
	HB	RICHMOND	VA
7.745/7.145	KNE	MT. STERLING	EKY
7.75 /7.15	MWA	DOG FORK MT	EKY
	TFW	ALBANY	GA
	BYK	CUMMING/SAWNEE	GA
	VLY	MORGANTON	NC

	ITL	RALEIGH	NC
	BJM	MONCKS CORNER	SC
	SDT	SIMPSONVILLE	SC
	KUB	MEMPHIS	TN
	PCD	NASHVILLE	TN
	EAJ	OAK RIDGE	TN
	OKH	TAZEWELL	VA
	SVR	ST ALBANS	WV
7.765/7.165	TCU	DOUGLAS	GA
	RT	HIGH POINT	NC
	YF	GREENWOOD	SC
	CEX	PURYEAR	TN
	CTF	NEWPORT NEWS	VA
	FJT	WARRENTON	VA
7.78 /7.18	BMA	AUGUSTA	GA
	NHW	BALDWIN	GA
	BI	SYCAMORE	GA
	EJJ	SANFORD	NC
	CTJ	WILMINGTON	NC
	SC	FT MILL/CAROWND	SC
	NAT	GOOSE CREEK	SC
	PCD	NASHVILLE	TN
	DES	POLK CTY/OSWALD	TN
	KAF	PETERSBURG	VA
	Z	PKS KB/PULASKI	VA
	NMT	LEON	WV
7.795/7.195	SMX	ATLANTA	GA
	RD	CAIRO	GA
	WB	MURPHY	NC
	RTS	LYNCHBURG	VA
7.81 /7.21	SG	CONYERS	GA
	LN	DALTON	GA
	NLX	SAVANNAH	GA
	BUZ	GREENSBORO	NC
	MSD	WHITEVILLE	NC
	AVU	LITTLE MT.	SC
	WS	COOKEVILLE	TN
	WKZ	JACKSON	TN
	IWG	MCLEAN	VA
	AXO	WISE/HIGH KNOB	VA
	TC	CHARLESTON	WV
7.825/7.225	LVY	SUMMERVILLE	GA
	WTX	HILLSBOROUGH	NC
	DTW	LAKE MARION	SC
	OAH	MORRISTOWN	TN
	C	HARRISONBURG	VA
	SDC	YORKTOWN	VA
7.84 /7.24	DII	ASHLAND	EKY
	NFG	IRWINTON	GA
	NIW	CARTHAGE	NC
	AQP	EDEN/MAYODAN	NC
	BKU	FOREST CITY	NC
	GHZ	FRANKLIN	NC
	BAL	HILTON HEAD	SC
	BGF	LANCASTER	SC
	NIT	GALLATIN	TN
	OKH	SOUTH HILL	VA
	FQR	WOODBRIDGE	VA
7.855/7.255	KDT	ATLANTA	GA
	AV	ASHEBORO	NC
	KNI	HENDSVL/PINCK MT	NC
	SI	PETROS	TN
	TVS	ACCOMAC	VA
	CYZ	DANTE	VA
	VAZ	MARTINSBURG	WV
7.885/7.255	BZU	DONELSON	TN
7.87 /7.27	GEL	PIKEVILLE	EKY
	VBH	AMERICUS	GA
	PJE	PORT PAYNE(AL)	GA
	H	BENSON	NC
	SM	WAYNESVILLE	NC
	LET	CHARLESTON	SC
	JRJ	SENECA/LONG MT	SC
	YQC	GALLATIN	TN
	FH	JOHNSON CITY	TN
	GX	GUM SPRING	VA
	SLI	CHARLESTON/HGTN	WV
7.885/7.285	PVW	ASHBURN	GA
	VBX	ATLANTA/GPCO	GA
	ADM	AIKEN	SC
	DCD	MYT BEA/BRKSVLLE	SC
	I	ROCKY SPUR	SC
	MJM	PIKEVILLE	TN
	L	MARTINSVILLE	VA
	HON	SPRUCE KNOB	WV
7.90 /7.30	HNM	ROME	GA
	HNM	SVR CRK/MT ALTO	GA
	HON	WARNER ROBINS	GA
	YJG	JEFFERSON	NC
	NHV	LUMBERTON	NC
	OMV	TUCKASEGEE	NC
	LWS	MT PLEASANT	SC
	BBB	KNOXVILLE	TN
	ADT	MEMPHIS	TN
	ZSA	NASHVILLE	TN
	SPS	FRANKLIN	VA
	ZR	LEXINGTON	VA
	TSC	WINCH/BLUEMONT	VA
	NSL	HARRISVILLE	WV
	BKX	HUNTINGTON	WV
7.915/7.315	RBW	UNION CROSS	NC
	HQT	JASPER	TN
	HFH	ALEXANDRIA	VA
	MR	CLARKSBURG	WV
7.92 /7.32	HWQ	GRUNDY	VA
7.93 /7.33	KWH	ASHLAND	EKY
	KNE	MT. STERLING	EKY
	BXO	LAGRANGE	GA
	DIP	TOCCOA	GA
	LPL	FAYVLLE/FT. BRAGG	NC
	K	LENOIR/HIBRITN	NC
	KIO	COLUMBIA	SC
	VXW	COVINGTON	TN
	CV	CROSSVILLE	TN

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PLEASE NOTE!

The letters column between the frequency and city indicate suffixes of the repeater callsign.

REPEATERS BY FREQUENCY CONTINUED

	AJS	NASHVILLE	TN
	PQD	LEXNGTN/COLE MT	VA
	ZIP	WARSAW	VA
7.94 /7.34	NEQ	ATLANTA/SWEAT MT	GA
7.945/7.345	IZD	LYNCH/BLACK MT	EKY
	NYR	SHELBY	NC
	TEP	WASHINGTON	NC
	WF	HENDERSONVILLE	TN
	VR	WYTHEVILLE	VA
	RUA	FRANKLIN	WV
7.95 /7.35	YZR	DANVILLE	VA
7.96 /7.36	EO	DOUGLASVILLE	GA
	HZX	DUBLIN	GA
	V	BOONE/RICH MTN	NC
	LDB	DURHAM	NC
	Z	LUMBERTON	NC
	OAK	KNXVL/CROSS MT	TN
	MMI	MEMPHIS	TN
	NTM	NASHVILLE S.	TN
	KLX	PARIS	TN
	CBB	CHESTERFIELD	VA
7.975/7.375	TQU	ATHENS	GA
	YN	BURNSVILLE	NC
	ROK	GREENVILLE	NC
	DMI	GEORGETOWN	SC
	LEO	GREENVILLE	SC
	BTJ	HILLSVILLE	VA
	ILD	LYNCHBURG	VA
	NV	VIRGINIA BEACH	VA
	LNB	GRAFTON	WV
	WMX	ST ALBANS	WV
7.99 /7.39	PDJ	JENKINS	EKY
	IMK	THOMASTON	GA
	CHZ	AQUADALE	NC
	QBG	EDEN/STONEVILLE	NC
	MKL	SMITHFIELD	NC
	FEC	LEXINGTON/LIT MT	SC
	TA	CLARKSVILLE	TN
	ZLA	DAYTON/RHEA CTY	TN
	SBX	GRAY	TN
	AJO	MADISON	VA
	ARO	PETERSBURG	VA
	LLM	PARKERSBURG	WV
6.16 /7.76	ZIN	WILLIAMSBURG	VA
7.315/7.915	SPJ	FORSYTH	GA

220 MHZ

1.11 /PKET	BOX	JACKSON	TN
3.70 /PKET	GQX	SAWNEE MT/CUMMIN	GA
2.12 /3.72	PGA	LOUISA	EKY
2.30 /3.90	NSO	GAINESVILLE	GA
	RAB	HERMITAGE	TN
2.32 /3.92	AZA	HIGH POINT	NC
2.34 /3.94	QK	ASHLAND	EKY
	BVW	ASHVL/MT PISGAH	NC
	WTX	HILLSBOROUGH	NC
	GP	CLARKSVILLE	TN
2.36 /3.96	C	ROCKY MOUNT	NC
2.38 /3.98	APS	VALDOSTA	GA
	HUV	LINWOOD	NC
	ILY	GREER	SC
	ZSA	GALLATIN	TN
2.40 /4.00	IZP	JASPER	GA
	ZIA	LOCUST	NC
	ARO	PETERSBURG	VA
2.42 /4.02	JEH	CONYERS	GA
	EHF	FAYETTEVILLE	NC
	MDW	HICKORY	NC
	TB	NASHVILLE	TN
2.44 /4.04	BZJ	DALTON	GA
2.46 /4.06	UPC	BUCHANAN/HARALSO	GA
	N	PICKENS/SASFR MT	SC
	BZS	FLT TRP/WINTRPLACE	WV
2.48 /4.08	UEX	NASHVILLE	TN
2.50 /4.10	YHD	FAIRFAX	VA
	DBB	ROANOKE	VA
2.52 /4.12	NFP	ATLANTA/SWEAT MT	GA
	FEC	LITTLE MT	SC
	MEY	NASHVILLE	TN
2.54 /4.14	WOR	LUMBERTON	NC
	QHF	PICKENS/CSRS HD	SC
	SGS	FRANKLIN	TN
	YYW	WILLIAMSON	WV
2.56 /4.16	K	LENOIR/HIBRITN	NC
	TA	CLARKSVILLE	TN
2.58 /4.18	TAG	HICKORY VALLEY	TN
	DAS	VIRGINIA BEACH	VA
2.62 /4.22	AWB	NASHVILLE	TN
2.64 /4.24	KNI	HENDSVL/BERWLW M	NC
2.66 /4.26	NP	MT. JULIET	TN
2.68 /4.28	BLR	ATLANTA	GA
	M	LYNCHBURG	VA
2.70 /4.30	PVI	STATESVILLE	NC
2.72 /4.32	JBF	THOMASVILLE	GA
2.74 /4.34	DOC	ATLANTA	GA
	DFH	FRIES/SAND MTN	VA
2.76 /4.36	TYO	MARSHALL	NC
2.78 /4.38	AUG	DANVILLE	VA
2.80 /4.40	ZC	CHARLT/MINT HL	NC
2.82 /4.42	GSM	NORTON/HIGH KB	VA
2.84 /4.44	OG	NASHVILLE	TN
2.86 /4.46	YON	KNOXVILLE	TN
2.88 /4.48	LNB	GRAFTON	WV
2.90 /4.50	KSM	CANTON	GA
	BBB	KNOXVILLE	TN
	DRL	MEM/FISHERVILLE	TN
2.94 /4.54	BVW	MT MITCHELL	NC
2.96 /4.56	DOC	ATL/CHESTNUT MT	GA
2.98 /4.58	F	PIKEVILLE	EKY
	YHH	SAURATOWN MT	NC
	VFD	CROSS	SC
3.00 /4.60	N	ASHEVILLE	NC
	NNR	HIGH POINT	NC
3.02 /4.62	ETG	PIKEVILLE	EKY
	ZTL	ATLANTA/BELL	GA
3.04 /4.64	PEN	RALEIGH	NC
	YHH	WINSTON-SALEM	NC
3.06 /4.66	TG	GRAY	GA
	MEY	NASHVILLE	TN
3.08 /4.68	KPF	LK NORMN/CLT	NC
3.10 /4.70	IOR	ATLANTA	GA
	RXG	SAURATOWN MT	NC
3.12 /4.72	MSK	MT. TOXAWAY	NC
3.14 /4.74	KVC	DALTON	GA
	FG	KINGSTON/LICK KB	WV
3.16 /4.76	BOC	STONE MT	GA
	EXU	SALISBURY	NC
	OAK	DAN/WHT OAK	VA
3.18 /4.78	VCM	CHATTANOOGA	TN
	UCI	JOHNSON CITY	TN
3.20 /4.80	PML	MORGANTON	NC
3.22 /4.82	C	ATLANTA	GA
	IKY	GREENSBORO	NC
	CCF	ALEXANDRIA	VA
3.24 /4.84	ACY	PERRY	GA
	DAN	GRIFTON	NC
	PLV	BEDFORD	VA
3.26 /4.86	TEM	KNOXVILLE	TN
	UHA	NEWPORT NEWS	VA
3.28 /4.88	RXG	SAURATOWN MT	NC
3.30 /4.90	OPL	MARIETTA	GA
	EOY	COLUMBIA	SC
	ZOK	CHATT/SIGNAL MT	TN
3.34 /4.94	UPC	BUCHANAN/HARALSO	GA
	EV	ROSSVILLE	GA
	NKM	GREENEVILLE	TN
	GVC	CHESAPEAKE	VA
	DBB	ROANOKE/POOR MTN	VA
3.36 /4.96	UDS	CHERRYVILLE	NC
	JVX	GOLDSBORO	NC
3.38 /4.98	JSR	CUMMINS/SAWNE MT	GA
	CHP	FALLS CHURCH	VA

440 MHZ

3.80 /PKET	KDC	NASHVILLE	TN
	CPF	SEWANEE	TN
	YXA	SHORT MTN	TN
	VVX	WAVERLY	TN
3.80 /PKET	VVX	RIPLEY	TN
6.50 /PKET	KQQ	MEMPHIS	TN
9.45 /5.67	DOC	ATLANTA	GA
9.25 /1.25	KIP	ATLANTA	GA
	PXX	BRUNSWICK	GA
	AZA	SAURATOWN MT	NC
	GUP	LEXINGTON	SC
	UMU	SUMTER	SC
	WIN	NORFOLK	VA
	MM	ALBANY	GA
	NYR	SHELBY	NC
7.00 /2.00	WAY	PICKENS/CSRS HD	SC
	BIW	MARION	VA
	CSG	WINCHESTER	VA
7.05 /2.05	DXZ	LANETT(AL)	GA
	PML	MORGANTON	NC
	XX	JASPER	TN
	BEZ	MEDINA	TN
7.10 /2.10	ACP	EDEN	NC
	ABJ	MILAN	TN
7.15 /2.15	BEA	RALEIGH	NC
7.175/2.175	EO	ROCKY FACE	GA
7.20 /2.20	BJY	JACKSON	TN
	LNB	GRAFTON	WV
7.25 /2.25	HQT	JASPER	TN
	HTI	COVINGTON	VA
7.30 /2.30	VFD	CROSS	SC
7.325/2.325	JSR	CHATTANOOGA	TN
7.50 /2.50	NTZ	KNOXVILLE	TN
	CA	ROANOKE/POOR MT	VA
7.55 /2.55	JEH	CONYERS	GA
7.70 /2.70	HON	ROANOKE	VA
7.80 /2.80	EPG	JACKSON	TN
	QWW	MEMPHIS	TN
7.90 /2.90	AZA	HIGH POINT	NC
8.00 /3.00	EO	CHATSWORTH	GA
	VL	GALAX/PT LOOKOUT	VA
8.05 /3.05	JVX	GOLDSBORO	NC
	PUB	MT JULIET	TN
8.10 /3.10	IZD	LYNCH/BLACK MT	EKY
	GGC	SAURATOWN MT	NC
	HKZ	PARIS MT	SC
	G	FAYETTEVILLE	TN
	FHE	BUCKHANNON	WV
8.15 /3.15	S	AUGUSTA	GA
8.20 /3.20	CLA	SWEAT MT	GA
	TAG	HICKORY VALLEY	TN
8.30 /3.30	KQI	STATESVILLE	NC
	KJH	GATLBG/COVE MT	TN
8.40 /3.40	GMT	CUMBERLAND CITY	TN
	DOR	MEMPHIS	TN
8.50 /3.50	LVH	ATLANTA	GA
	PQZ	GREENSBORO	NC
	WKS	PARIS/GROVE HL	TN
	GUS	TYSONS CORNER	VA
8.55 /3.55	LVH	ATLANTA/SE	GA
	XE	ROARING GAP	NC
8.60 /3.60	DWU	MT MITCHELL	NC
8.65 /3.65	UMI	HAMPTON	VA
8.70 /3.70	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
8.75 /3.75	EDS	ALAMO	TN
	WO	WINDY GAP MT	VA
8.30 /3.80	EAQ	MANASSAS	VA
8.80 /3.80	OKS	JASPER/BIG BUCK	GA
	HNK	SUMMERVILLE	SC
	NDH	CHESAPEAKE	VA
	JRL	WYTHEVILLE	VA
8.85 /3.85	IDB	FRANKLIN	TN
8.875/3.875	LZQ	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	EVG	CHESAPEAKE	VA
8.925/3.925	IU	RINGGOLD	GA
8.95 /3.95	NTG	WILLIAMSBURG	VA
9.00 /4.00	QDX	LAWRENCEVILLE	GA
	JEQ	HICKORY	NC
	IT	MULLENS/HRNDN MT	WV
9.025/4.025	MSE	STONE MT	GA
9.05 /4.05	PQD	MARIETTA	GA
	OG	NASHVILLE	TN
	BLD	BEAR DEN MT	VA
9.10 /4.10	WTX	DURHAM	NC
	NFO	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
9.15 /4.15	ZTL	ATLANTA/BELL	GA
	PQD	LEXNGTN/COLE MT	VA
	VA	SPRINGFIELD	VA
9.20 /4.20	OHN	COLUMBUS	GA
	LBM	DECATUR	GA
	NEX	MORRISTOWN	TN
	EZA	WAYNESBORO	VA
9.25 /4.25	BOC	ATLANTA/STONE MT	GA
	KNJ	HENDSVL/BERWLW M	NC
	RM	SMYRNA	TN
	TFZ	CHARLOTTESVILLE	VA
9.30 /4.30	MNH	CHARLESTON	SC
	HXD	KNOXVILLE	TN
	DRL	MEM/FISHERVILLE	TN
	BLD	WAYNESBORO	VA
9.325/4.325	MPW	SANDY SPRNGS/ATL	GA
8.35 /4.35	GGN	N. WILKESBORO	NC
9.35 /4.35	JF	TIFTON	GA
	DBB	BEDFD/APL ORCH	VA
9.375/4.375	BFD	MT OGELTHORPE	GA
9.40 /4.40	ZW	FAYETTEVILLE	NC
	EAJ	OAK RIDGE	TN
	FQJ	LOGAN/BLAIR MT	WV
9.425/4.425	ISI	ALTAVISTA	VA
9.45 /4.45	KWP	GALLATIN	TN
	CRK	FALLS CHURCH	VA
9.50 /4.50	MM	ALBANY	GA
	UWL	ATLANTA	GA
	LSP	BRISTOL/HLST MT	TN
	KSL	KNOXVILLE	TN
	IZF	MEMPHIS	TN
	HEX	LYNCHBURG	VA
	QYU	HUNTINGTON	WV
9.55 /4.55	NEF	TYRONE	GA
9.60 /4.60	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	HFH	ALEXANDRIA	VA
	OZT	ST ALBANS	WV
9.625/4.625	WQ	ATLANTA	GA
	MZ	BLUEFIELD	VA
9.65 /4.65	IBW	SMYRNA	GA
	HF	SALISBURY	NC
	NKM	GREENEVILLE	TN
	ARO	RICHMOND	VA
9.675/4.675	AY	NASHVILLE	TN
9.70 /4.70	HHH	ELIJAY TALONA M	GA
	APS	VALDOSTA	GA
	JEH	ROCKY MOUNT	NC
	DRU	MT PLEASANT	SC
	MMI	MEMPHIS	TN
	LG	MORGANTOWN	WV
9.735/4.735	TIW	DALTON	GA
9.75 /4.75	RFA	ROCK HILL	SC
	BFS	ELIZ/HOLSTON MT	TN
	JYF	TYSONS CORNER	VA
9.775/4.775	NEQ	MARIETTA	GA
	QES	NASHVILLE	TN
9.80 /4.80	J	GREENVILLE	NC
	UY	MT AIRY/FSH PK	NC
	MIC	OLVILLE	VA
	FRV	LK KNOB/KINSTON	WV
	CUL	MORGANTOWN	WV
9.825/4.825	ZPB	STAUNTON	VA
9.85 /4.85	NFP	MARIETTA	GA
	CQ	CHARLOTTE	NC
	GMP	WILMINGTON	NC
	ARO	RICHMOND	VA
9.875/4.875	LRD	CHATTANOOGA	TN
	THG	NASHVILLE	TN
	FMD	JANE LEW	WV
9.90 /4.90	COS	ASHVL/MT PISGAH	NC
	ZW	FAYETTEVILLE	NC
	VBC	NEW BERN	NC
	J	WILSON	NC
	MMI	MEMPHIS	TN
9.925/4.925	NNO	ATLANTA	GA
	BUH	ANDERSON/SAS MT	SC
	BON	ROANOKE/POOR MT	VA
9.95 /4.95	I	AUGUSTA	GA
	KIN	PERRY	GA
	SIR	BENTON/BEAN MT	TN
	KQQ	MEMPHIS	TN
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	CQV	S. CHARLESTON	WV
9.975/4.975	YNZ	ATLANTA	GA
	TVE	BRUNSWICK	GA
	QES	NASHVILLE	TN
4.00 /5.00	VBA	CHEAHA MT(AL)	GA
6.65 /6.65	DBB	ROANOKE	VA
4.225/9.225	JCE	MANASSAS	VA
4.825/9.825	DOC	ATLANTA	GA
4.90 /9.90	OLL	MACON	GA
	FQR	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMONT	VA

920 MHZ

7.10 /9.10	TAG	HICKORY VALLEY	TN
9.10 /1.10	DRL	MEM/FISHERVILLE	TN

1270 MHZ

1.40 /1.40	DOC	ATL/CHESTNUT MT	GA
1.10 /1.10	DRL	MEM/FISHERVILLE	TN
1.20 /1.20	TAG	HICKORY VALLEY	TN

10 METERS

9.60 /9.60	TFZ	CHARLOTTESVILLE	VA
	CTF	NEWPORT NEWS	VA
9.52 /9.62	LVH	ATLANTA	GA
	CC	ATLANTA	GA
	XE	WILKESBORO	NC
	IOB	KNXVL/ENG MT	TN
	ZJM	MEMPHIS/FRAYSER	TN
9.54 /9.64	CC	ATL/MARIETTA	GA
	BZU	DONELSON	TN
	TAG	HICKORY VALLEY	TN
	BON	ROANOKE/POOR MT	VA
9.56 /9.66	ACP	EDEN	NC
	ZBP	STAUNTON	VA
9.58 /9.68	MM	ALBANY	GA
	BZJ	DALTON	GA
	XX	JASPER	TN
	DRL	MEM/FISHERVILLE	TN
	MZ	ONEIDA PK/BLFLD	VA

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CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	✲	PA
ALBEMARLE	K4OGB	146.385	146.985	N	
AQUADALE	WA4CHZ	147.99	147.39	N	C
ASHEBORO	KJ4AV	147.855	147.255	D	PAL
ASHEVILLE	WA4QCO	146.235	146.835	D	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	✲	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	✲	A
BENSON	AK4H	147.87	147.27	N	PA
BOONE/RICH MTN	KU4V	147.96	147.36	D	
BREVARD/RICH MTN	WB4CJS	147.735	147.135	✲	A
BURGAW	W4DLH	146.34	146.94	✲	EA
BURLINGTON	K4ITL	144.71	145.31	N	PL
BURLINGTON	WB4ZIN	146.07	146.67	N	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	✲	
CHARLOTTE	W4BFB	144.63	145.23	N	
CHARLOTTE	W4BFB	144.69	145.29	N	A
CHARLOTTE	WA4AOS	144.75	145.35	N	L
CHARLOTTE	W4BFB	146.34	146.94	N	A
CHARLOTTE	W4CQ	146.46	147.06	N	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775	N	R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
CONCORD/KANNAP.	K4CEB	146.055	146.655	D	PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	✲	PA
DURHAM	WA4WTX	144.85	145.45	✲	AL
DURHAM	WA4BFT	146.34	146.94	N	A
DURHAM	WD4LDB	147.96	147.36	✲	
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	O
EDEN/STONEVILLE	WA4QBG	147.99	147.39	✲	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	✲	
FAYETTEVILLE	WA4FLR	146.445	147.045	✲	R
FAYVLLE/CFARS	WB4YZF	146.31	146.91	D	
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	D	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	D	
FRANKLIN	W4GHZ	147.84	147.24	✲	
GAST/SPCR MT	W4REW	147.72	147.12	N	A
GASTONIA	K4NOQ	146.205	146.805	✲	PA
GIBSONVILLE	WB4IKY	147.72	147.12	✲	A
GOLDSBORO	K4CYP	146.25	146.85	✲	A
GREENSBORO	K4SNI	146.01	146.61	✲	A
GREENSBORO	WA4MSS	146.16	146.76	N	
GREENSBORO	W4GG	147.63	147.03	✲	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENSBORO/GLD H	N4AZM	144.65	145.25	✲	A
GREENVILLE	WA4DAN	144.75	145.35	✲	L
GREENVILLE	K4ROK	147.975	147.375	D	
GREENVL/ESTN NC	W4GDF	147.69	147.09	✲	
GRIFTON	W4NBR	146.085	146.685	✲	
HALIFAX	AA4SJ	146.07	146.67	N	A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	D	A
HENDSVL/PINCK MT	WA4KNI	147.855	147.255	D	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	D	
HIGH POINT	N4XO	144.81	145.41	N	AO
HIGH POINT	N4LDK	146.40	147.00	✲	LA
HIGH POINT	KB4BPV	147.435	146.835	✲	PA
HIGH POINT	KJ4RT	147.765	147.165	D	PA
HILLSBOROUGH	WA4WTX	147.825	147.225	✲	AL
JACKSONVILLE	WD4FVO	146.40	147.00	✲	A
JEFFERSON	W4YJG	147.90	147.30	D	A
LAURINBURG	K4QWK	146.025	146.625	✲	A
LENOIR/HIBRITN	KN4K	147.93	147.33	✲	
LEXINGTON	K4IZM	146.31	146.91	D	PA
LK NORMN/CLT	WB4KPF	147.615	147.015	✲	PA
LUMBERTON	W4NHV	147.90	147.30	✲	PA
LUMBERTON	WV4Z	147.96	147.36	✲	
MACO	WA4LED	147.66	147.06	N	
MADISON	KA4YFF	146.295	146.895	N	
MAGGIE VALLEY	W4HCY	147.405	146.805	✲	
MANTEO/WANCHESE	W4ACY	146.34	146.94	✲	
MARION	KA4ROZ	146.385	146.985	✲	A
MARION	K4GHH	147.705	147.105	D	
MAYODAN	WA4ACP	144.69	145.29	N	
MILLERS CREEK	N4GGN	146.115	146.715	✲	A
MONROE	K4JCK	147.705	147.105	N	A
MONROE/UCARS	KF4NJ	144.79	145.39	✲	PA
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	✲	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	✲	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	D	PA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	D	PA
NEW BERN	WD4JMS	146.01	146.61	D	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	K4YJB	147.675	147.075	N	
NEWTON/ANDSN MT	W4ZQB	144.57	145.17	N	
OXFORD	N4EKK	144.57	145.17	✲	PA
RALEIGH	N4BEA	144.67	145.27	N	PAL
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64	D	
RALEIGH	K4BWC	146.13	146.73	✲	PA
RALEIGH	K4ITL	146.28	146.88	✲	L
RALEIGH	K4ITL	147.75	147.15	✲	PA
RANDLEMAN/GBO	WD4CVM	144.55	145.15	✲	
REIDSVILLE	K4YFT	146.25	146.85	N	
ROANOKE RAPIDS	K4ITL	144.71	145.31	✲	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	N	
ROARING GAP	WB4PZA	146.22	146.82	✲	L
ROB/JOANNA BLD	WD4CNS	146.445	147.045	N	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	D	PA
SALISBURY	W4EXU	146.13	146.73	✲	PA
SANFORD	WB4EJJ	147.78	147.18	N	A
SAURATOWN MT	W4RXG	144.51	145.11	✲	R
SAURATOWN MT	WA4GIC	144.87	145.47	✲	
SAURATOWN MT	N4LDK	146.19	146.79	✲	PA
SHALLOTTE	K4PPD	144.69	145.29	✲	PA
SHELBY	W4NYR	146.28	146.88	N	
SHELBY	W4NYR	147.945	147.345	N	PA
SMITHFIELD	KD4JQ	146.37	146.97	D	
SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	✲	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	✲	PA
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	✲	
TRENTON	K4ITL	144.61	145.21	✲	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315	D	
WADESBORO	WA4IAT	146.235	146.835	N	
WASHINGTON	WA4TEP	147.945	147.345	N	
WAXHAW	WA4ZRS	147.465	146.865	✲	PA
WAYNESVILLE	N4SM	147.87	147.27	✲	A
WHITEVILLE	K4MSD	147.81	147.21	✲	
WILLIAMSTON	KA4KNU	144.81	145.41	✲	A
WILMINGTON	W4VNK	146.13	146.73	✲	PA
WILMINGTON	K4GMP	146.22	146.82	✲	L
WILMINGTON	N4CTJ	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	✲	
WINSTON-SALEM	WA4GIC	146.04	146.64	✲	AL

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	✲	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	✲	
CHARLT/MINT HL	KE4ZC	222.80	224.40	✲	
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	✲	
GOLDSBORO	WB3JVX	223.36	224.96	D	EAC
GREENSBORO	WB4IKY	223.22	224.82	✲	A
GRIFTON	WA4DAN	223.24	224.84	✲	
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	D	
HICKORY	WA4MDW	222.42	224.02	D	
HIGH POINT	K4AZA	222.32	223.92	✲	LA
HIGH POINT	N4NNR	223.00	224.60	✲	PA
HILLSBOROUGH	WA4WTX	222.34	223.94	✲	L
LENOIR/HIBRITN	KN4K	222.56	224.16	✲	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	✲	

DISTRIBUTION OF REPEATERS BY FREQUENCY

6 METERS

2.58 /2.48	DCS	FAIRFAX	VA
2.525/2.525	YAO	HENDERSONVILLE	NC
	AZA	HIGH POINT	NC
	TFZ	CHARLOTTESVILLE	VA
2.64 /2.84	KHP	FAIRFAX STA	VA
2.01 /3.01	YAO	HENDERSONVILLE	NC
	LRD	CHATTANOOGA	TN
	KOG	MEMPHIS	TN
	PQD	LEXNGTN/COLE MT	VA
	LSP	NORTON/HIGH KB	VA
2.03 /3.03	EDU	AUGUSTA	GA
	DTS	ROANOKE RAPIDS	NC
2.05 /3.05	UPC	ATLANTA/SWEAT MT	GA
	HSN	COPE	SC
2.07 /3.07	ODA	LINEVILLE(AL)	GA
	NNN	LOUISA	VA
2.09 /3.09	MPW	ATL/MARIETTA	GA
	BON	ROANOKE/POOR MT	VA
2.13 /3.13	CCF	ALEXANDRIA	VA
	GJG	DANVILLE(DCC)	VA
2.15 /3.15	IOB	KNXVL/ENG MT	TN
	DBB	BEDFORD/THAX MT	VA

MORE NORTH CAROLINA REPEATERS

LOCUST	WA4ZIA	222.40	224.00	*	PAL
LUMBERTON	WB4WOR	222.54	224.14	N	
MARSHALL	KA4TYO	222.76	224.36	N	
MORGANTON	WB4PML	223.20	224.80	D	
MT MITCHELL	WA4BVW	222.94	224.54	*	
MT. TOXAWAY	K4MSK	223.12	224.72	N	
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	*	PA
SALISBURY	W4EXU	223.16	224.76	*	L
SAURATOWN MT	WA4YHH	222.98	224.58	*	
SAURATOWN MT	W4RXG	223.10	224.70	*	R
SAURATOWN MT	W4RXG	223.28	224.88	*	
STATESVILLE	WA4PVI	222.70	224.30	N	
WINSTON-SALEM	WA4YHH	223.04	224.64	*	PA

440 MHZ

ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	W4BFB	449.60	444.60	N	
CHARLOTTE	W4CQ	449.85	444.85	N	
DURHAM	WA4WTX	449.10	444.10	*	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GOLDSBORO	WB3JVX	448.05	443.05	D	EA
GREENSBORO	WD4PQZ	448.50	443.50	D	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	D	
HICKORY	K4JEQ	449.00	444.00	D	
HIGH POINT	K4AZA	447.90	442.90	*	L
HIGH POINT	N4LXW	448.70	443.70	N	
LOCUST	WA4LBT	448.70	443.70	D	L
MORGANTON	WB4PML	447.05	442.05	D	
MT AIRY/FSH PK	KF4UY	449.80	444.80	*	
MT MITCHELL	N4DWU	448.60	443.60	*	
N. WILKESBORO	N4GGN	448.35	444.35	N	
NEW BERN	WA4VBC	449.90	444.90	*	
RALEIGH	N4BEA	447.15	442.15	N	L
ROARING GAP	KC4XE	448.55	443.55	*	L
ROCKY MOUNT	N4JEH	449.70	444.70	*	PA
SALISBURY	KJ4HF	449.65	444.65	*	ARB
SAURATOWN MT	K4AZA	439.25	421.25	*	V
SAURATOWN MT	N4GGC	448.10	443.10	*	
SHELBY	W4NYR	439.25	427.25	N	VPA
STATESVILLE	KB4KQI	448.30	443.30	*	RB
WILMINGTON	K4GMP	449.85	444.85	*	
WILSON	NE4J	449.90	444.90	*	

10 METERS

EDEN	WA4ACP	29.56	29.66	N	
WILKESBORO	KC4XE	29.52	29.62	*	L

6 METERS

HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	D	
HIGH POINT	K4AZA	52.525	52.525	N	RB
ROANOKE RAPIDS	WA4DTS	52.03	53.03	N	
STATESVILLE	WA4WRS	52.67	53.67	N	

PACKET

CHARLOTTE	W4BFB-1	145.01	N	K
CHERRY MTN	WB4RDL-1	145.01	N	K
COLFAX	KE4TH-1	145.07	N	K
CONCORD	K4CEB-1	145.05	D	K
GOLDSBORO	K4CYP-1	145.01	*	K
GREENVILLE	WD4JPQ-1	145.01	D	K
LINVILLE	KB4NHB-2	145.05	*	K
LUMBERTON	W4NHV	145.01	*	K
RALEIGH	K4ITL-1	145.01	*	K
RALEIGH	K4BWC-1	145.01	*	K
SAURATOWN MT	W4RXG-1	145.01	D	K
SPIVEY MTN	KB4OKW-1	145.01	N	K

SERA REPEATER SYMBOLS

*	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255	*	EA
AFTON MT	W4BLD-	145.03	LAN	*	K
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	*	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	*	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	*	
BEDFORD	WB4JBJ	147.705	147.105	D	LRPA
BLACKSBURG	AB9I	146.115	146.715	N	
BLAND	N4AZJ	144.75	145.35	*	PA
BLUEFIELD	W8MOP	144.89	145.49	*	PA
BRISTOL	WD4CYZ	146.28	146.88	D	
BRUMLEY MT	K4LSP	146.01	146.61	*	EA
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	*	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	*	
CHASE CITY	W4AXH	146.31	146.91	*	
CHESAPEAKE	K4NDH	144.69	145.29	*	EA
CHESAPEAKE	N4GSP	146.01	146.61	*	A
CHESAPEAKE	N4SD	146.19	146.79	*	A
CHESTERFIELD	KA4CBB	147.96	147.36	*	
CHESTERFLD CO	WA4ECM	147.66	147.06	*	PA
COVINGTON	WA4HTI	146.205	146.805	N	
CULPEPPER	N4FAF	147.72	147.12	M	
DANTE	KA4JNC	146.035	146.635	N	C
DANTE	WD4CYZ	147.855	147.255	D	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	*	A
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	D	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WA4QQI	144.73	145.33	*	
FINCASTLE	W4WIC	146.04	146.64	*	AL
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	M	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	*	
GALAX/LKOUT MT	N4VL	144.53	145.13	*	
GLOUCESTER	KA2IMI	144.77	145.37	D	
GRUNDY	K4HWQ	147.92	147.32	N	ANB
GRUNDY/BIG A MT	WD4DCX	146.235	146.835	N	
GUM SPRING	KB4GX	147.87	147.27	N	
HAMPTON	K4DHO	146.13	146.73	D	PA
HAMPTON	K4UMI	146.34	146.94	N	T
HARRISONBURG	WX4C	147.825	147.225	*	M
HILLSVILLE	WD4BTJ	147.975	147.375	N	A
JONESVILLE	WA4OVC	146.31	146.91	D	
KILMARNOCK	W2MS	144.61	145.21	N	A
LEXINGTON	KI4ZR	146.07	146.67	N	A
LEXINGTON	KI4ZR	147.90	147.30	*	
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	N	A
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	KB4ILD	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	*	PA
MARION	N4BIW	146.04	146.64	*	
MARTINSVILLE	AB4L	147.885	147.285	D	
MCLEAN	WD4IWG	147.81	147.21	M	R
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	O
NEW MARKET	K4AVW	146.025	146.625	*	
NEWPORT NEWS	WA4OHX	144.89	145.49	N	PA
NEWPORT NEWS	WB4CTF	147.765	147.165	*	PAL
NORFOLK	NE4D	146.10	146.70	*	EA
ONEIDA PEAK/BLF	KD8MZ	146.355	146.955	D	PAL
PEARISBURG	N4AZJ	147.735	147.135	*	
PETERSBURG	K4ARO	144.55	145.15	D	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	N	PA
PORTSMOUTH	N4MG	146.25	146.85	D	
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	NB4B	144.59	145.19	D	
RICHMOND	W4SQT	144.83	145.43	*	PA
RICHMOND	WB4QEY	146.04	146.64	D	PA
RICHMOND	WA4ECM	146.235	146.835	*	
RICHMOND	WA4ZBE	146.28	146.88	*	EA
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	*	PAL
SALEM	W4PDL	146.28	146.88	N	
SOUTH HILL	N4OKH	147.84	147.24	*	
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	

MORE VIRGINIA REPEATERS

STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WA4QKH	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.295	146.895	*	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	W4NV	147.975	147.375	*	
VOLENS	WD4LBM	146.46	147.06	*	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33	*	EA
WAYNESBORO	W4BLD	147.63	147.03	*	
WAYNSBR/BEAR DEN	W4PNT	147.675	147.075	D	L
WILLIAMSBURG	W4NTG	146.07	146.67	*	
WILLIAMSBURG	KB4ZIN	146.16	147.76	*	A
WINCH/BLUEMONT	WA4TSC	147.90	147.30	M	
WINCHESTER	W4RKC	146.22	146.82	*	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHEVILLE	WD4MUQ	146.175	146.775	*	
WYTHEVILLE	KC4VR	147.945	147.345	*	AL
YORKTOWN	K4UMI	144.63	145.23	N	P
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
BEDFORD	N4PLV	223.24	224.84	N	
CHESAPEAKE	WA6GVC	223.34	224.94	N	
DAN/WHT OAK	K4OAK	223.16	224.76	N	
DANVILLE	K4AUG	222.78	224.38	*	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FRIES/SAND MTN	WA4DFH	222.74	224.34	*	
LYNCHBURG	AB4M	222.68	224.28	N	
NEWPORT NEWS	KB4UHA	223.26	224.86	N	
NORTON/HIGH KB	WD4GSM	222.82	224.42	N	C
PETERSBURG	K4ARO	222.40	224.00	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	D	
VIRGINIA BEACH	WD8DAS	222.58	224.18	N	

440 MHZ

ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	*	L
BEAR DEN MT	W4BLD	449.05	444.05	*	
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
BLUEFIELD	KD8MZ	449.625	444.625	D	LPA
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	K4NDH	448.80	443.80	*	PA
CHESAPEAKE	N4EVG	448.90	443.90	*	PA
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
GALAX/PT LOOKOUT	N4VL	448.00	443.00	*	L
HAMPTON	K4UMI	448.65	443.65	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
MARION	N4BIW	447.00	442.00	*	
NORFOLK	W4WIN	439.25	426.25	N	V
OILVILLE	KB4MIC	449.80	444.80	N	
RICHMOND	K4ARO	449.65	444.65	*	
RICHMOND	K4ARO	449.85	444.85	*	
ROANOKE	WB4DBB	446.65	446.65	D	RBL
ROANOKE	N4HON	447.70	442.70	N	
ROANOKE/POOR MT	W4CA	447.50	442.50	*	L
ROANOKE/POOR MT	WB8BON	449.925	444.925	N	CL
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	WA4ZPB	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	
WAYNESBORO	WA4EZA	449.20	444.20	N	
WAYNESBORO	W4BLD	449.30	444.30	*	
WILLIAMSBURG	W4NTG	448.95	443.95	*	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WINDY GAP MT	W4WIC	448.75	443.75	*	L
WOODBRIDGE	WB4FQR	444.90	449.90	M	
WYTHEVILLE	KA4JRL	448.80	443.80	N	C

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	*	RB
NEWPORT NEWS	WB4CTF	29.60	29.60	D	RB
ONEIDA PK/BLFLD	KD8MZ	29.58	29.68	D	C
ROANOKE/POOR MT	WB8BON	29.54	29.64	N	CL
STAUNTON	WA4ZBP	29.56	29.66	*	RB

6 METERS

ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	*	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	*	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
LOUISA	KA4NNN	52.07	53.07	N	
NORTON/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	NB4B	52.43	53.43	D	
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L
ROANOKE/POOR MT	WB8BON	52.09	53.09	N	CL

PACKET

ACCOMAC	KJ4AG-1	145.01	*	K
ACCOMAC	KJ4AG-3	145.03	*	K
BEAR DEN MT	W4BLD-1	145.01	*	K
CHARLOTTESVILLE	WA4TFZ-2	145.03	*	K
CHESAPEAKE	N4SD-1	145.01	*	K
COVINGTON	WA4PGI-1	145.01	N	K
DISMAL PEAK	KC4VR-2	145.01	*	K
FANCY GAP	WA4LWE-1	145.01	N	K
FORK MTN	WA4FRV-3	145.01	N	
FREDERICKSBURG	KB4OB-1	145.01	M	K
GARRISONVILLE	AA4PB-1	145.01	N	K
GRUNDY/GDY	KK4EH-1	145.01	N	K
HAMPTON	K4UMI-5	145.01	N	K
LYNCHBURG	K4LKQ-1	145.01	N	K
MARION	KC4VR-4	145.01	*	K
MIDDLEBURG	WA4TSC-1	145.01	N	K
NASSAWADOX	KJ4AG-2	145.01	*	K
ONEIDA PEAK/BLF	WB4BBF-1	145.01	D	K
PETERSBURG	K4ARO-1	145.01	*	K
RICHMOND	K4ARO-2	145.05	D	K
ROANOKE	N4FHL-1	145.01	N	K
ROANOKE	WB4QOJ-1	145.07	N	K
STEPHENS CITY	W3CSG	145.01	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	*	K
WASHINGTON, D.C.	WB4JFI-5	145.01	N	K
WOODBRIDGE	WB4FQR-4	145.01	N	K
WOODBRIDGE	KA4USE-1	145.07	N	K
WYTHEVILLE	KC4VR-1	145.01	*	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	N	
ALCOLU	N4LWY	144.85	145.45	*	P
ANDERSON	N4SZ	146.37	146.97	D	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	*	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	*	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	D	
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	K4ILT	146.19	146.79	N	
CHARLESTON	WB4LET	147.87	147.27	*	PA
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
COLUMBIA	N4HWU	144.83	145.43	*	PA
COLUMBIA	WB4NEP	146.115	146.715	N	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	WA4KIO	147.93	147.33	N	
DILLON/PEE DEE	NN4N	146.145	146.745	*	
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	*	PA
FT JACKSON	WB4OCB	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18	*	
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375	N	
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.975	147.375	*	T
GREENWOOD	KB4YF	147.765	147.165	*	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	*	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	D	PA
HILTON HEAD	N1BAL	147.84	147.24	N	
INMAN	WD8OXE	144.87	145.47	N	
LAKE MARION	W4DTW	147.825	147.225	*	A
LANCASTER	W4PAX	146.10	146.70	D	
LANCASTER	WB4BGF	147.84	147.24	N	
LEXINGTON/LIT MT	KA4FEC	147.99	147.39	*	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985	N	PA
MT PLEASANT	K4LWS	147.90	147.30	N	PA
MYRTLE BEACH	WD4JMT	144.51	145.11	D	
MYRTLE BEACH	WD4JMT	146.01	146.61	D	PA

MORE SOUTH CAROLINA REPEATERS

MYRTLE BEACH	WA4YGE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
MYT BEA/BRKSVLLE	W4DCD	147.885	147.285	★	A
N. AUGUSTA	K4FKJ	146.13	146.73	★	
NEWBERRY	KB4CO	146.085	146.685	N	
PICKENS	WB4YXZ	146.40	147.00	D	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	★	A
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925	N	PA
ROCK HILL	K4YTZ	146.43	147.03	D	PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WD4BJY	146.13	146.73	D	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	WD8OXE	147.69	147.09	N	PA
ST. MATTHEWS	AD4U	146.22	146.82	N	P
SUMTER	WS4P	146.04	146.64	★	
SUMTER	WA4UMU	147.615	147.015	★	EA
SUMTER/SHAW	W4VFR	147.66	147.06	★	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	D	RB
CROSS	KB4VFD	222.98	224.58	★	P
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	★	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	D	PA
PICKENS/SASFR MT	AJ4N	222.46	224.06	D	

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925	N	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
CHARLESTON	N4MNH	449.30	444.30	★	A
CROSS	KB4VFD	447.30	442.30	★	P
LEXINGTON	N4GUP	439.25	421.25	D	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PARIS MT	WB4HKZ	448.10	443.10	N	P
PICKENS/CSRS HD	WA6WAY	447.00	442.00	D	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	448.80	443.80	★	
SUMTER	WA4UMU	439.25	423.25	★	V

6 METERS

COPE	N4HSN	52.05	53.05	N	
PICKENS	WB4YXY	52.41	53.41	D	

PACKET

ANDERSON	KA4YEA-1	145.07	★	K
ANDERSON/SAS MT	W4FX-1	145.01	★	K
CHARLESTON	N4LYF-1	145.01	N	K
COLUMBIA	N4EOY-1	145.01	D	K
COLUMBIA	N4HWU-1	145.03	★	K
COLUMBIA	N4EOY-5	145.05	D	K
CONWAY	WA4TKM-1	145.01	N	K
CROSS	KB4VFD-4	145.05	★	K
FLORENCE	W4ULH-1	145.01	N	K
LANCASTER	K4WJR-1	145.01	N	K
SUMTER	WS4P-1	145.01	★	K

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	D	
BRISTOL	K4ILW	146.07	146.67	D	A
BRISTOL	WD4CYZ	146.28	146.88	D	
BRISTOL/HLSTN MT	K4LSP	146.16	146.76	D	A
BROWNSVILLE	WA4ABU	146.055	146.655	D	
CHATT/SIGNAL MT	KW4Z	146.055	146.655	★	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	D	
CHATTANOOGA	KB4TZ	144.79	145.39	D	A
CHATTANOOGA	K4CMY	146.01	146.61	D	
CHATTANOOGA	W4DSK	146.19	146.79	D	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N	
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLARKSVILLE	N2BVO	147.675	147.075	N	
CLARKSVILLE	AA4TA	147.99	147.39	D	C
COOKEVILLE	WA4UCE	144.83	145.43	N	A
COOKEVILLE	N4WS	147.81	147.21	N	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	★	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	★	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FRANKLIN	WB4HCK	144.55	145.15	N	RB
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GRAY	WD4SBX	147.99	147.39	★	A
GREENEVILLE	K4EPC	144.79	145.39	★	
GREENEVILLE	WB4TUO	144.81	145.41	★	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	D	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
GUTHRIE (TN/KY)	KA4NNA	146.205	146.805	N	
HARRIMAN	WA4RHV	147.615	147.015	N	C
HENDERSONVILLE	WB4WZK	144.67	145.27	★	
HENDERSONVILLE	N4WF	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	D	
HICKORY VALLEY	KA5TAG	144.73	145.33	★	L
HOLSTON MT/E TN	WB4SQC	144.69	145.29	★	PA
HUMBOLDT	NQ4Y	144.75	145.35	N	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JAMESTOWN	KE4JE	144.55	145.15	N	
JASPER	KD4XX	144.59	145.19	N	
JASPER	N4HQT	147.915	147.315	N	
JOHNSON CITY	W4ABR	146.19	146.79	N	A
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	★	PA
KNOXVILLE	WB4JSD	144.51	145.11	N	R
KNOXVILLE	W4BBB	144.61	145.21	★	A
KNOXVILLE	N4GRC	144.77	145.37	★	
KNOXVILLE	WB4GBI	144.87	145.47	★	
KNOXVILLE	WB4GBI	146.025	146.625	★	C
KNOXVILLE	WB4GBI	146.34	146.94	★	
KNOXVILLE	WB4GBI	147.675	147.075	★	A
KNOXVILLE	W4BBB	147.90	147.30	★	
KNOXVL/SHARPS RG	WA4TEM	144.73	145.33	D	A
KNXVL/CROSS MT	KA4OAK	147.96	147.36	N	
KNXVL/ENG MT	WB4IOB	146.13	146.73	★	
LAFOLLETTE	KA4OAK	144.53	145.13	N	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	N	
LAKE CITY	WB4OAH	146.22	146.82	N	
LAVERNE	KJ4RA	144.63	145.23	D	
LEBANON	WB4DOR	144.59	145.19	D	
LEBANON	KE4VZ	146.13	146.73	N	PA
LENOIR CITY	KB4PIO	146.085	146.685	N	C
LEXINGTON	WB4LGH	146.43	147.03	N	
LOUDEN	KE4V	144.57	145.17	D	
MANCHESTER	W4UOT	146.10	146.70	D	A
MARTIN	WA4ZQX	146.025	146.625	D	
MCMINNVILLE	WD4MWQ	146.37	146.97	★	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	★	
MEDINA	K4BEZ	146.37	146.97	D	A
MEM/FISHERVILLE	N4DRL	144.65	145.25	★	AL
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	WB4KQQ	146.04	146.64	★	EA
MEMPHIS	W4UFT	146.10	146.70	N	
MEMPHIS	WB4DAZ	146.13	146.73	★	PA
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	★	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	N	L
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON/NB	W4ODR	146.43	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	

SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE TENNESSEE REPEATERS

MT JULIET	WA4CBF	144.77	145.37	D	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	W4PQP	146.16	146.76	D	
NASHVILLE	W4SQE	146.19	146.79	D	
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	D	
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	*	L
OAK RIDGE	K4EAJ	147.75	147.15	*	R
PARIS	K4KLX	147.96	147.36	N	A
PETROS	KJ4SI	147.855	147.255	*	
PIKEVILLE	K4MJM	147.885	147.285	*	
POLK CTY/OSWALD	WD4DES	147.78	147.18	D	
PULASKI/MUS MT	W4JVO	146.175	146.775	D	EA
PURYEAR	WA4CEX	147.765	147.165	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27	N	
SHELBYVILLE	W4QEB	147.66	147.06	*	A
SHORT MTN	W4YXA	146.31	146.91	*	
SMYRNA	WB4LHO	144.57	145.17	D	PA
SPARTA/BON AIR	W4BSA	147.69	147.09	N	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KF4VM	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	D	
UNION CITY	WA4YGM	147.615	147.015	D	C
WAVERLY	NO4Q	146.085	146.685	D	
WINCHESTER	WB4UEW	146.22	146.82	D	

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	D	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
CLARKSVILLE	AA4TA	222.56	224.16	D	C
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	D	
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90	N	
HICKORY VALLEY	KA5TAG	222.58	224.18	*	L
JOHNSON CITY	WA4UCI	223.18	224.78	N	C
KNOXVILLE	WA4YON	222.86	224.46	D	
KNOXVILLE	W4BBB	222.90	224.50	*	
KNOXVILLE	WA4TEM	223.26	224.86	D	C
MEM/FISHERVILLE	N4DRL	222.90	224.50	*	L
MT. JULIET	KE4NP	222.66	224.26	N	
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4MEY	222.52	224.12	N	C
NASHVILLE	N4AWB	222.62	224.22	N	
NASHVILLE	KI4OG	222.84	224.44	D	
NASHVILLE	N4MEY	223.06	224.66	N	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
BENTON/BEAN MT	K4SIR	449.95	444.95	N	
BRISTOL/HLST MT	K4LSP	449.50	444.50	D	ARB
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	D	
CHATTANOOGA	WB4LRD	449.875	444.875	N	
CUMBERLAND CITY	N4GMT	448.40	443.40	N	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	443.10	N	
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4KWP	449.45	444.45	D	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	*	
HICKORY VALLEY	KA5TAG	448.20	443.20	*	L
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	N	A
JASPER	KD4XX	447.05	442.05	N	
JASPER	N4HQT	447.25	442.25	N	
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4KSL	449.50	444.50	D	
KNOXVILLE	KB4NK	449.60	444.60	D	
MEDINA	K4BEZ	447.05	442.05	N	AL
MEM/FISHERVILLE	N4DRL	449.30	444.30	*	L
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	WB4MMI	449.70	444.70	N	T
MEMPHIS	WB4MMI	449.90	444.90	N	L
MEMPHIS	WB4KQQ	449.95	444.95	*	
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
MT JULIET	WA4PUB	448.05	443.05	N	
NASHVILLE	KI4OG	449.05	444.05	D	T
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	*	L
PARIS/GROVE HL	WA4WKS	448.50	443.50	N	
SMYRNA	KJ4RM	449.25	444.25	N	

920 MHZ

HICKORY VALLEY	KA5TAG	907.10	919.10	*	L
MEM/FISHERVILLE	N4DRL	909.10	921.10	*	L

1270 MHZ

HICKORY VALLEY	KA5TAG	271.20	291.20	*	L
MEM/FISHERVILLE	N4DRL	271.10	291.10	*	L

10 METERS

DONELSON	WA4BZU	29.54	29.64	N	
HICKORY VALLEY	KA5TAG	29.54	29.64	*	L
JASPER	KD4XX	29.58	29.68	N	
KNXVL/ENG MT	WB4IOB	29.52	29.62	*	P
MEM/FISHERVILLE	N4DRL	29.58	29.68	*	L
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N	

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.19	53.19	N	
GALLATIN	WD4KWP	52.45	53.45	D	
GUTHRIE (TN/KY)	KA4ZKL	52.23	53.23	N	
HICKORY VALLEY	KA5TAG	52.67	53.67	*	L
KNOXVILLE	WA4YON	52.25	53.25	D	
KNOXVILLE	WB4GBI	52.35	53.35	*	C
KNXVL/ENG MT	WB4IOB	52.15	53.15	*	A
MEM/FISHERVILLE	N4DRL	52.27	53.27	*	CL
MEMPHIS	WA4KOG	52.01	53.01	N	

PACKET

BRISTOL	WX4S-1	145.01	N	K
CHATTANOOGA	W4DSK-1	145.01	N	K
CROSSVILLE	N4LLD-1	145.01	N	K
GALLTN/MUSIC MT	W4PTZ-1	145.01	D	K
GREENEVILLE	K4VZZ-1	147.48	N	K
HORNBEAK	WA4VVX-6	145.01	N	K
JACKSON	WA4VVX-7	145.01	N	K
JACKSON	WB7BOX-1	145.01	N	K
JACKSON	WB7BOX-2	221.11	N	K
KINGSPORT	N4NBX	145.04	N	K
KNOXVILLE	KC4OI	145.01	N	K
KNOXVL/CROSS MT	WA4YON-1	145.01	N	K
LOBOVILLE	WA4VVX-2	145.01	N	K
MEMPHIS	WA4KQQ-1	145.01	N	K
MEMPHIS	AI5R	145.01	N	K
MEMPHIS	WA4KQQ	446.50	N	K
NASHVILLE	W4HHY	145.01	N	K
NASHVILLE	WA4KDC-2	145.01	N	K
NASHVILLE	WA4KDC	433.80	N	DL
PIKEVILLE	K4MJM-1	145.01	*	K
RIPLEY	WA4VVX-3	145.01	N	K
RIPLEY	WA4VVX-5	443.80	N	DL
ROCKWOOD	AA4KS-1	147.48	N	K
ROCKWOOD MT	KB4NK-1	145.01	*	K
SEWANEE	WD4CPF-1	145.01	N	K
SEWANEE	WD4CPF-2	433.80	N	DL
SHORT MT	W4YXA-1	145.01	*	K
SHORT MTN	W4YXA	433.80	N	DL
WAVERLY	WA4VVX-4	433.80	N	DL
WINCHESTER	WD4CPF	145.01	N	K

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GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ADEL	KF4JF	144.63	145.23	N	
ALBANY	W4MM	144.55	145.15	N	L
ALBANY	W4MM	146.10	146.70	N	
ALBANY	W4MM	146.13	146.73	N	
ALBANY	W4MM	146.22	146.82	N	
ALBANY	W4MM	147.72	147.12	N	K
ALBANY	WB4TFW	147.75	147.15	D	
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	W4PVW	147.885	147.285	*	EA
ATHENS	WA4BKF	146.145	146.745	*	A
ATHENS	K4TQU	147.975	147.375	N	
ATLANTA	W4AQL	144.55	145.15	*	PA
ATLANTA	K4DRQ	144.69	145.29	D	
ATLANTA	W4DOC	144.75	145.35	D	
ATLANTA	W4DOC	146.22	146.82	D	PA
ATLANTA	N4OD	146.37	146.97	D	
ATLANTA	WA4NNO	146.40	147.00	N	PA
ATLANTA	K4YSB	147.705	147.105	N	
ATLANTA	K4SMX	147.795	147.195	D	T
ATLANTA	WD4KDT	147.855	147.255	*	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	N	
ATLANTA/BELL	W4PME	144.81	145.41	D	
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/STONE MT	W4BOC	146.16	146.76	D	
ATLANTA/SWEAT MT	K4LCI	144.83	145.43	N	EA
ATLANTA/SWEAT MT	N4CLA	144.87	145.47	D	EA
ATLANTA/SWEAT MT	KD4NC	146.13	146.73	D	K
ATLANTA/SWEAT MT	N4NEQ	147.94	147.34	N	NB
AUGUSTA	W4TUN	144.51	145.11	D	A
AUGUSTA	AA4UA	144.77	145.37	D	A
AUGUSTA	N4JA	144.89	145.49	*	
AUGUSTA	W4LWT	146.04	146.64	D	
AUGUSTA	KT4N	146.34	146.94	D	
AUGUSTA	NA4I	146.385	146.985	*	PA
AUGUSTA	NI4S	147.72	147.12	D	PA
AUGUSTA	N4BMA	147.78	147.18	D	RPA
BALDWIN	WD4NHW	147.78	147.18	D	A
BIRMINGHAM(AL)	N4IQT	144.59	145.19	D	
BON AIRE	W4MST	147.615	147.015	*	
BRUNSWICK	K4TVE	146.13	146.73	N	
CAIRO	AA4RD	147.795	147.195	N	
CALHOUN	KC4AQS	147.405	146.805	*	LA
CARROLLTON	W4FWD	146.04	146.64	D	A
CEDARTOWN	W4CMA	147.72	147.12	*	PA
CLAYTON	WB4BLQ	144.65	145.25	N	
CLEVELAND/LONG	K4FOW	146.31	146.91	N	
CLEVELAND/LONG	K4FOW	147.615	147.015	N	
COLUMBUS	KA4CEK	144.71	145.31	D	
COLUMBUS	W4FIZ	146.01	146.61	N	
COLUMBUS	N4AGO	146.28	146.88	N	
COLUMBUS-RTTY	K4ACH	144.77	145.37	N	R
CONYERS	WB4JEH	144.63	145.23	D	
CONYERS	KE4SG	147.81	147.21	N	PA
CORDELE	WA4RWS	144.89	145.49	*	
COVINGTON	WA4ASI	146.325	146.925	N	
CUMMING/SAWNEE	K4BYK	147.75	147.15	D	PAL
DALLAS	K4DVJ	146.25	146.85	N	
DALTON	KE4UJ	144.63	145.23	D	
DALTON	N4BZJ	144.65	145.25	*	A
DALTON	N4BZJ	147.735	147.135	*	AL
DALTON	KE4LN	147.81	147.21	*	
DECATUR	W4VTA	144.51	145.11	*	EA
DOUGLAS	KB4TCU	147.765	147.165	N	
DOUGLASVILLE	KB4EO	147.96	147.36	N	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY/TALONA M	W4HHH	146.385	146.985	*	A
FAYETTEVILLE	K4UWN	146.085	146.685	N	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	W4SPJ	147.315	147.915	N	
FORT PAYNE(AL)	WA4PJE	147.87	147.27	D	A
GAINESVILLE	W4NSO	146.07	146.67	*	A
GRIFFIN	K4HYB	144.79	145.39	D	PA
GRIFFIN	K4HYB	146.31	146.91	D	
HARTWELL	KY4T	146.895	146.295	N	EA
HINESVILLE	KF4UM	147.60	147.00	N	
IRWINTON	WB4NFG	147.84	147.24	N	
JASPER	KB4IZF	144.77	145.37	*	PA
JASPER	W4OOM	146.10	146.70	*	
JASPER(AL)	WB4ACN	146.30	146.90	D	
JEFFERSON	KB4ZUN	147.645	147.045	N	
JESUP	WA4EQL	146.07	146.67	N	
JONESBORO	WA4DIW	144.57	145.17	*	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAGRANGE	KO4R	146.25	146.85	D	EA
LAGRANGE	WB4BXO	147.93	147.33	D	EA
LANETT(AL)	K4DXZ	147.60	147.00	*	
LEEDS(AL)	N4IQT	146.08	146.68	D	
LINEVILLE(AL)	WB4VBA	144.83	145.43	D	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	*	NBPA
MACON	WA4DDI	147.66	147.06	*	T
MADISON	WB4DKY	146.265	146.865	N	
MARIETTA	WA4QPL	144.89	145.49	D	PA
MARIETTA	N4NFP	146.055	146.655	D	EAL
MARIETTA	KE4FT	146.13	146.73	N	
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4BTI	146.28	146.88	N	
METTER	W4TYM	147.645	147.045	N	
MILLEDGEVILLE	KF4LI	144.55	145.15	*	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	PA
NEWNAN	K4SEX	146.19	146.79	*	
PERRY	KB4KIN	146.355	146.955	D	A
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	D	
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROCKY TOP MT	K5PRE	146.355	146.955	N	
ROME	K4HNM	147.90	147.30	N	
ROME/MT. ALTO	W4VO	146.34	146.94	*	EA
ROSSVILLE	W4FGQ	144.75	145.35	*	
ROSWELL	N4CLA	147.66	147.06	D	EA
SAVANNAH	K4NLX	146.10	146.70	*	PA
SAVANNAH	W4HBB	146.28	146.88	N	
SAVANNAH	W4HBB	146.37	146.97	N	A
SAVANNAH	K4NLX	147.81	147.21	*	PA
SNELLVILLE	WD4JXR	147.675	147.075	D	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	N	
STATESBORO	NC4D	147.705	147.105	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
STONE MT	W4BOC	144.85	145.45	D	
SUMMERVILLE	KA4LVY	147.825	147.225	N	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	N	
SWAINSBORO	K4VYX	146.19	146.79	N	O
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
THOMPSON	WB4OCB	146.235	146.835	N	C
TOCCOA	KA4DIP	147.93	147.33	*	
TYRONE	W4PSZ	144.61	145.21	D	PA
UNION CITY	WA4UPE	146.025	146.625	N	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625	*	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	N	L
WARNER ROBINS	WB4BDP	146.01	146.61	N	
WARNER ROBINS	W4HON	146.25	146.85	D	A
WARNER ROBINS	W4HON	147.90	147.30	D	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	

220 MHZ

ATL/CHESTNUT MT	W4DOC	222.96	224.56	D	L
ATLANTA	N4BLR	222.68	224.28	N	
ATLANTA	W4DOC	222.74	224.34	D	
ATLANTA	N4IQR	223.10	224.70	*	
ATLANTA	KK4C	223.22	224.82	D	PAL
ATLANTA/BELL	W4ZTL	223.02	224.62	N	
ATLANTA/SWEAT MT	N4NFP	222.52	224.12	N	PAL
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	N	L
BUCHANAN/HARALSO	WB4UPC	223.34	224.94	N	
CANTON	N4KSM	222.90	224.50	N	
CONYERS	WB4JEH	222.42	224.02	D	
CUMMINS/SAWNE MT	K4JSR	223.38	224.98	D	PA
DALTON	N4BZJ	222.44	224.04	*	
DALTON	N4KVC	223.14	224.74	*	ARB
GAINESVILLE	W4NSO	222.30	223.90	*	
GRAY	W4TG	223.06	224.66	N	
JASPER	KB4IZP	222.40	224.00	D	
MARIETTA	WA4QPL	223.30	224.90	D	
PERRY	WL7ACY	223.24	224.84	D	
ROSSVILLE	KC4EV	223.34	224.94	N	
STONE MT	W4BOC	223.16	224.76	D	
THOMASVILLE	N4JBF	222.72	224.32	N	
VALDOSTA	W4APS	222.38	223.98	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	N	
ALBANY	W4MM	449.50	444.50	N	
ATLANTA	W4KIP	439.25	421.25	N	V
ATLANTA	W4DOC	444.825	449.825	D	NB
ATLANTA	WB8LVH	448.50	443.50	*	
ATLANTA	W4DOC	449.45	145.67	D	RB
ATLANTA	WB4UWL	449.50	444.50	N	
ATLANTA	N4WQ	449.625	444.625	N	AO
ATLANTA	WA4NNO	449.925	444.925	N	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	W4ZTL	449.15	444.15	D	
ATLANTA/SE	WB8LVH	448.55	443.55	*	NB
ATLANTA/STONE MT	W4BOC	449.25	444.25	D	
AUGUSTA	NI4S	448.15	443.15	N	

MORE GEORGIA REPEATERS

AUGUSTA	NA4I	449.95	444.95	*	
BRUNSWICK	KB4PXX	439.25	421.25	N	V
BRUNSWICK	K4TVE	449.975	444.975	N	
CHATSWORTH	AA4EO	448.00	443.00	D	
CHEAHA MT(AL)	WB4VBA	444.00	445.00	D	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB4JEH	447.55	442.55	D	
DALTON	WA4TIW	449.735	444.735	D	NB
DECATUR	WB4LBM	449.20	444.20	N	
ELLIJAY TALONA M	W4HHH	449.70	444.70	*	
GRIFFIN	WB4GWA	448.90	443.90	D	PA
JASPER/BIG BUCK	N4OKS	448.80	443.80	D	
LANETT(AL)	K4DXZ	447.05	442.05	*	
LAWRENCEVILLE	WB4QDX	449.00	444.00	N	
MACON	WB4OLL	444.90	449.90	N	NB
MARIETTA	K4PQD	449.05	444.05	N	
MARIETTA	N4NEQ	449.775	444.775	D	
MARIETTA	N4NFP	449.85	444.85	D	PA
MT OGELTHORPE	WB4BFD	449.375	444.375	N	
PERRY	KB4KIN	449.95	444.95	D	
RINGGOLD	KJ4IU	448.925	443.925	D	
ROCKY FACE	AA4EO	447.175	442.175	N	
SANDY SPRNGS/ATL	WA4MPW	449.325	444.325	D	C
SMYRNA	N4IBW	449.65	444.65	N	
STONE MT	N4MSE	449.025	444.025	N	
SWEAT MT	N4CLA	448.20	443.20	D	K
TIFTON	KF4JF	449.35	444.35	N	
TYRONE	K4NEF	449.55	444.55	D	
VALDOSTA	W4APS	449.70	444.70	N	

1270 MHZ

ATL/CHESTNUT MT	W4DOC	291.40	271.40	D	

10 METERS

ALBANY	W4MM	29.58	29.68	N	L
ATL/MARIETTA	KK4CC	29.54	29.64	*	
ATLANTA	KK4CC	29.52	29.62	N	
ATLANTA	WB8LVH	29.52	29.62	*	L
DALTON	N4BZJ	29.58	29.68	*	AL

6 METERS

ATL/MARIETTA	WA4MPW	52.09	53.09	*	
ATLANTA/SWEAT MT	WB4UPC	52.05	53.05	N	
AUGUSTA	K4EDU	52.03	53.03	N	P
CONYERS	WB4JEH	52.55	53.55	D	
LINEVILLE(AL)	WB4ODA	52.07	53.07	D	

PACKET

ADEL	KF4JF-1	145.01	N	K
ALBANY	W4MM-1	145.09	N	K
AMICACOLA MT	WB4GQX-4	145.09	N	K
ATLANTA/EAST	KF4JJ-1	145.03	D	K
ATLANTA/EAST	KE4ZV-1	145.03	D	K
AUGUSTA	KT4N-1	145.01	N	K
CLARKSVILLE	W4EAW-1	145.01	N	K
COHUTTA	W4KAU	145.01	N	K
COHUTTA	W4KAU	145.09	N	K
COLUMBUS	K4ABT-1	145.01	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	N	K
FAIRMONT	AA4EO-1	145.09	N	K
FORSYTH	WB4GQX-2	145.01	N	K
HAMPTON	WA4TXT-1	145.01	N	K
LAGRANGE	WB4BXO-1	145.03	D	K
LYONS	N4JWP-1	145.01	D	K
PERRY	K4ICT-1	145.01	D	K
PERRY	KB4KIN-1	145.01	N	K
PERRY	KB4KIN-5	145.05	N	K
PINE MT/HAMILTON	WB4ULJ-1	145.01	D	K
ROBERTA	K4ICT-4	145.01	N	K
ROME	NC4G-1	145.09	N	K
SAVANNAH	K4NLX-2	145.01	*	K
SAVANNAH	K4NLX-1	145.03	*	K
SYCAMORE	WD4LYV	145.01	N	K
SYCAMORE	WD4LYV	145.05	N	K
WARNER ROBINS	K4AGT-1	145.01	N	K
WARNER ROBINS	WL7ACY-2	145.05	D	K
WARNER ROBINS	WL7ACY-1	145.05	N	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	N	K

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WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	N8FWL	144.77	145.37	D	LA
BECKLEY/FLAT TOP	K8BO	146.25	146.85	D	A
BLUEFIELD	W8MOP	144.89	145.49	*	PA
BOLT/BOLT MT	N8DKL	144.57	145.17	D	L
BRIDGEPORT	WB8DKM	147.72	147.12	D	EAL
BUCKHANNON	N8FHE	144.53	145.13	*	A
BUCKHANNON	N8FHE	144.81	145.41	*	
BUCKHANNON	K8WYH	146.25	146.85	N	
CHARLESTON	N8FMD	144.69	145.29	*	L
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CHARLESTON	KD8TC	147.81	147.21	N	C
CHARLESTON/HGTN	K8SLI	147.87	147.27	N	A
CHARLESTON/HTGN	K8SLI	144.81	145.41	N	
CLARKSBURG	N8FMD	146.085	146.685	*	
CLARKSBURG	KE8MR	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27	N	L
DUNBAR	K8VKI	147.72	147.12	*	
ELK GARDEN	N8FMD	146.145	146.745	*	
FAIRMONT	W8SP	146.30	146.90	N	NB
FLAT TOP/WINTERP	N8BZS	146.025	146.625	D	
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	WB8MZI	146.01	146.61	N	
GRAFTON	WD8LNB	147.975	147.375	D	
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21	N	R
HUNTINGTON	W8VA	146.16	146.76	*	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	
KINGSTON/LICK KB	W8FG	144.87	145.47	*	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	D	L
LEON	WB8NMT	147.78	147.18	N	
LOGAN/BLAIR MT	NU8K	144.63	145.23	D	
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	D	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	*	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	D	LPA
MT STORM	K8VNQ	147.705	147.105	D	L
MULLENS/HRNDN MT	KC8IT	147.63	147.03	D	LARB
NEW MARTINSVILLE	WB8CSW	146.34	146.94	D	
NEW MARTINSVLLE	WB8CSW	147.54	146.94	D	NB
OAK HILL	K8CFT	146.19	146.79	*	EA
PARKERSBURG	WA8CRW	146.37	146.97	*	
PARKERSBURG	WA8LLM	147.99	147.39	*	
PARSONS	K8VNQ	144.73	145.33	D	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KC8WL	146.46	147.06	D	A
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	N	
RAVENSWOOD	WD8JNU	146.10	146.70	N	R
SALT ROCK	WD8MCR	144.51	145.11	N	
SHERRARD	KD6GL	146.115	146.715	*	EAL
SPRUCE KNOB	N8HON	147.885	147.285	*	
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	KA8SVR	147.75	147.15	N	
ST ALBANS	K8WMX	147.975	147.375	*	R
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94	*	
TERRA ALTA	KD8ZR	147.60	147.00	D	PA
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	WB8JGY	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	KE8FR	144.73	145.33	*	A

220 MHZ

FLT TP/WNTRPLACE	N8BZS	222.46	224.06	D	
GRAFTON	WD8LNB	222.88	224.48	D	L
KINGSTON/LICK KB	W8FG	223.14	224.74	*	
WILLIAMSON	KA8YYW	222.54	224.14	*	

440 MHZ

BUCKHANNON	N8FHE	448.10	443.10	*	
GRAFTON	WD8LNB	447.20	442.20	D	
HUNTINGTON	KA8QYU	449.50	444.50	N	
JANE LEW	N8FMD	449.875	444.875	*	
LK KNOB/KINSTON	N8FRV	449.80	444.80	D	
LOGAN/BLAIR MT	WB8FQJ	449.40	444.40	D	
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	D	PAL
MULLENS/HRNDN MT	KC8IT	449.00	444.00	D	RBL
S. CHARLESTON	WB8CQV	449.95	444.95	N	
ST ALBANS	WD8OZT	449.60	444.60	D	

MORE WEST VIRGINIA REPEATERS

6 METERS

DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB

PACKET

HUNTINGTON	KA8EUU-1	145.01	N	K
LOGAN/BLAIR MT	WB8FQJ-1	145.01	D	K
MORGANTOWN	N8BHI-1	145.01	D	K
ST ALBANS	K8SLI-1	145.01	N	
TERRA ALTA	KD8ZR	145.01	D	K
WILLIAMSON	KA8YYW-1	145.01	*	K

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KD4SN	146.34	146.94	*	
ASHLAND	KA4DII	147.84	147.24	N	PA
ASHLAND	WA8KWH	147.93	147.33	D	A
DEAN	AK4U	144.61	145.21	*	L
DOG FORK MT	N4MWA	147.75	147.15	N	
ELKHORN CITY	WB4WAU	147.60	147.00	D	PA
FLAT GAP	KB4NDB	147.69	147.09	D	O
GRAYSON	KF4JO	146.10	146.70	N	
GUTHRIE	KA4NNE	146.205	146.805	D	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	N	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	N	A
LOUISA	WA4SWF	146.13	146.73	D	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MAYTOWN	AK4U	146.28	146.88	*	L
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	D	
MT. STERLING	WD4KNE	147.745	147.145	N	
MT. STERLING	WD4KNE	147.93	147.33	N	
PHELPS	KJ4YK	147.69	147.09	*	
PIKEVILLE	N4IWZ	144.55	145.15	*	
PIKEVILLE	WB4GEL	146.19	146.79	*	PA
PIKEVILLE	N4IXA	146.25	146.85	D	EAL
PIKEVILLE	WB4GEL	147.87	147.27	D	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	*	LRB
WINCHESTER	WB4ASZ	147.72	147.12	D	EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
LOUISA	K4PGA	222.12	223.72	N	EA
PIKEVILLE	WB4F	222.98	224.58	D	
PIKEVILLE	N4ETG	223.02	224.62	D	A

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

6 METERS

FLAT GAP	N4MPM	52.45	53.45	D	
GUTHRIE	KA4ZKL	52.23	53.23	D	

PACKET

ASHLAND	KD4SN-1	145.01	N	K
BEREA	KA4MZY-1	145.01	N	
ELIZABETHTOWN	W4BEJ-1	145.01	N	
ELKHORN CITY	WB4WAU-1	145.01	N	
FRANKFORT	KB4AGA	145.01	N	
FRANKFORT	KB4AGA-1	145.01	N	K
GREENSBURG	N4ICS	145.01	N	
HAZARD	K4AVX-1	145.01	N	
LEXINGTON	KF4NB-BBS	145.01	N	
LEXINGTON	WA4JAV-BB	145.01	N	
LEXINGTON	W4AUZ-1	145.01	N	
LOUISA	WA4SWF-1	145.01	N	
LOUISVILLE	W4MOP-1	145.01	N	
PRESTONSBURG	WA4FHK-1	145.01	D	K
VERSAILLES	WB9TPG-1	145.01	N	K
WHITESBURG	KB4TTQ-1	145.01	N	K
WINCHESTER	WB4FDK	145.01	N	
WINCHESTER	WB4FDK-1	145.01	N	K

There Is Strength In Unity!

New SERA Computer

A new PC Compatable computer has been placed with the Repeater Journal Editor. The machine was okayed at the August Board of Directors meeting.

The machine has 640K RAM memory, contains two 360K Disc Drives, and a 30M hard drive. The printer is a dot-matrix 150 column machine. A Hayes modem is to be on line when necessary from the Editor's home.

The basic idea for the machine is to eliminate double efforts on updating the repeater index for SERA. The present method is for the Editor to receive originals of all Full Membership applications, and written repeater changes from all the Directors and repeater owners. These changes are written on a double-spaced printout, and sent to David Ward, who has to then keyboard all the changes into the computer.

The new computer will give the Editor the capability of receiving changes from anyone, and keyboarding them directly into the Repeater Data Bank on the computer. The changes only will then be sent to David to merge in the master lists.

Plans also include sending monthly or at least quarterly, changes which have been made, and a new updated index to each SERA Director.

As more Directors obtain computers, David is writing software which will enable any Director to connect with the Editor's machine and insert changes and corrections directly into the Data Bank, or receive printouts or changes whenever deemed necessary.

Additional plans include more use of the computer by the Editor in publishing the Journal. The editor will keyboard copy, and feed via modem to David, who will run off on the SERA Laser printer, which is also updated with more fonts, and more software.

The Journal presently uses some stories, some small ads, and the Repeater Index and Hamfest Calendar via the SERA laser printer.

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Looking Back At Roots

Contined From Page 1

coordinating body, by, of and for Amateur Radio.

"I handled the paperwork," Don said, "We mailed letters to every known repeater owner in North Carolina and asked them to attend a meeting in March of 1971 to discuss this new world of repeaters, and what needed to be done to control them."

The meeting was held in Greensboro on March 14th and representatives from most of the active repeaters across the State attended. They made the decision on that date to form what they called "The North Carolina FM Repeater Association."

Fast work followed as Harris, Simms, Ingram and Warford set out to write a Constitution and By-Laws.

"Bill Simms put up the money, and got a lawyer friend to draw up the Incorporation papers", F.L. said.

By April they were ready and at another meeting in Greensboro, on April 18, the Association was formally created and a seven member Board of Directors was elected, from the repeater representatives of North Carolina.

The basic purpose of the NCFMRA (1) Promote the exchange of information concerning repeater installation and operation among the amateurs of North Carolina. (2) Offer guidance and assistance in establishing repeaters in the State, (3) Provide a unified voice for VHF FM interests in North Carolina to the FCC and other groups, and (4) Advance the general interest and welfare of the Amateur radio as a public service.

Two classes of membership were offered. (1) Full Members-individuals who owned or operated repeaters that provide service in or into North Carolina. (2) Associate Membership-interested Amateurs who are interested and/or active in VHF FM operations.

Annual Full Member dues began at $6.00 and Associate Membership was $2.00.

NCFMRA stressed the fact that "Only through a united effort on the part of individual repeater owners and clubs will the goals and aspirations of the Association be realized."

In the 1971 NCFNRA Repeater Directory, Bill Parris, K4GHR wrote: "The Association has the potential for becoming the largest single organized voice for Amateur radio in the State of North Carolina. . . we would certainly like to have you contribute to this voice."

Little did Parris, Secretary and Treasurer and the others realize what they had started. Their fondest dreams never invisioned a seven State organization with over 1,000 repeaters under its wing be a result of those early months in 1970 and 1971.

It is our hope that we, the people who carry on the tradition of SERA will be able to remember where we came from, and work dilligently to keep our job as honorable and inspirational as the four from North Carolina did seventeen years ago.

They should be proud. They are the fathers of the organization. It is still patterned after their original thinking. Even though we are larger, which was caused by the organizations concern and dedication to helping Amateur radio VHF/UHF FM, we still strive to be the mainstay for that "united effort" they worked so hard to establish.

W4BUZ, K4AZA, WB4OFF and K4RUQ -- we salute you, and we hope the recognition you so richly deserve for giving birth to our organization is finally fixed in the minds for all who belong and support SERA, the child of YOUR original NCFMRA. We thank you fellas!

NEXT ISSUE: "The Later Years"

— Wayne C. Williams, K4MOB
Editor, The Repeater Journal

Gift Suggestion!

What better way to thank a friend for something he has done for you than an Associate Membership to SERA. Give him the Repeater Journal for one year. He'll thank you for it! See membership application in this issue.

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SUPER DIGIPETER - Beacham Leonard, W4RXG and Bob Warren, KB4NHB report that their new Packet Digipeter, operating on 145.05 is in place on Grandmother Mt. at Linville, N.C. The site is approximately 4,600 feet MSL. Transceiver for the machine is an ICOM 27-H, running 5-watts into an isopole antenna. The TNC is MFJ-1270, equipped with NET/ROM program. (Photo story ctsy: W4RXG and KB4NHB)

Foundation of AR To Award 87 Scholarships

THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with headquarters in Washington, D.C., plans to award twenty-seven (27) scholarships for the academic year 1988-89 to assist licensed Radio Amateurs. The Foundation, composed of fifty local area Amateur Radio Clubs, fully funds four of these scholarships with the income from grants and its annual Hamfest. It administers without cost to the donors, seven (7) scholarships for the Quarter Century Wireless Association, two (2) each for the Dade (FL) Radio Club, the Baltimore (MD) Amateur Radio Club, the Department of State Amateur Radio Club, the Amateur Radio News Service and the 10-10 International Net and one (1) each for the Radio Club of America, the Richard G. Chichester Memorial, the Young Ladies' Radio League, the Columbia (MD) Amateur Radio Association, the Frederick (MD) Amateur Radio Club and the Vienna (VA) Wireless Society.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled or have been accepted for enrollment at an accredited university, college or technical school. Some of the scholarships require the holding of at least an FCC GENERAL Class license or equivalent. The awards range from $500 to $2000 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs.

Additional information and an application form can be requested by letter or QSL card, postmarked prior to May 31, 1988 from:

F A R Scholarships
6903 Rhode Island Avenue
College Park, MD 20740

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(c) (3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

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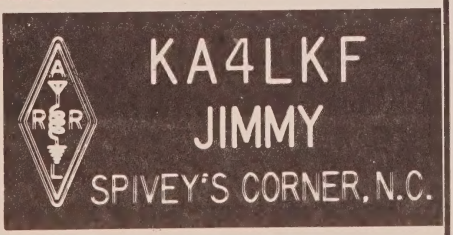
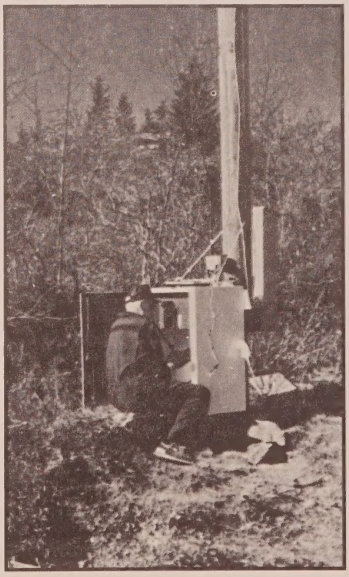


Your Choice of Colors!
● RED/WHITE ● BLACK/WHITE
● BLUE/WHITE ● WOOD GRAIN/WHT.

Bob Warren, KB4NHB stands on a step ladder to assemble the Linville Digipeter antenna in place. The ladder only reaches 15 feet, but the antenna is 4,600 feet above sea level. The 145.05 machine is now operational. The system is jointly owned by Warren and Beacham Leonard, W4RXG. Linville is in the Mountainous Western part of North Carolina.



Beacham Leonard, W4RXG works on the weather tight cabinet housing the Linville Digipeter on 145.05. Early reports indicate the coverage to be 125 miles south to Columbia, S.C., and north to Pilot Mt., N.C. Coverage is also expected into Tennessee and West Virginia as more "packeteers" learn of this system.

Charlotte Observer Marathon Communications

— by Paul Reynolds, WB4MCI

On January 2nd members of the Charlotte Amateur Radio Club, W4CQ, provided Communications in this year's Charlotte Observer Marathon. The Master's 10k, Women's 10k, Open 10k, and the Marathon (26.2 miles) were covered by 23 Radio Amateurs. Communication was maintained with all of the aid stations, pick up vans, emergency medical personnel, race officials, start and finish lines, and WSOC-TV back to net control which was at the finish line at the Charlotte Convention Center.

The net was conducted over the club's repeater W4CQ/RPT 146.46/147.06 MHz as well as on a simplex frequency. The club kept track of the lead runners, runners to be picked up, who was picked up or in need of help, as well as where the last runner (or walker) was.

The following people should be thanked for a job well done, especially since most of them braved the cold and windy weather and worked through some repeater problems (a jammer was one of them, but everyone ignored it so he went away.) At the aid stations were Don Biltcliffe, N4FNR, Lewis Cloninger,

The following people should be thanked for a job well done, especially since most of them braved the cold and windy weather and worked through some repeater problems (a jammer was one of them, but everyone ignored it so he went away). At the aid stations were Don Biltcliffe N4FNR, Lewis Cloninger KF4TJ, Jeff Cloud W4USH, Ike Cobb AJ4M, Bob Doran K2VJG, Bill Dunlap WA4FKY, Ron Durie WV4OOA, Wil Eury WD4BEL, Buck Escott WB4OTP, Dave Immel KE4EW, Tom Osterhaus KK4JQ, Jim Pilker KK4N, Dean Prevett WU4A, Laurie Prevett WB4QYC, Bob Price KB4BVH, Joe Underwood WB8DHO, and Paul Wise W4PFM. With the pick-up vans were Jeff Blyth KA4WYC and Wray Ware WB4BQG, who also served at the starting line. WSOC-TV liaison was Mike Young KA4VUK, who also served at an aid station location later on. Net Control, W4CQ, were Thelma Reynolds WA4JLW and Paul Reynolds WB4MCI, who also served at the finish line and organized the communications along with the Charlotte Observer (newspaper).

After the Marathon was over, a few of the club members got together at a local restaurant to discuss the day's events.

The next day the Charlotte Amateur Radio Club received a full page "Thank You", along with other organizations, from the Charlotte Observer.

ARRL Receives Repeater Changes Via Computer

For the first time, SERA sent 1987 repeater changes to the ARRL Repeater Directory data bank via computer and telephone modem.

David Ward, KA4LVO, SERA Computer operator made hookup with Bart Jhanke, heads up the Repeater Directory for the ARRL, and all SERA repeater index changes for the 1987 year were sent via telephone modem.

"This is a big step for us this year," David said, "Especially compared to last year, when Wayne, K4MOB and Bart spent some nine hours on the phone, transferring changes by voice and pencil."

With acquisition of a computer to parallel the SERA main computer, to be placed in Wayne's shack, we should be able to continue this practice in the future, plus a lot more updating within our organization.

Bart of ARRL told the Journal, "It sure saved some time to get the changes by ASCII over the telephone." "This made my job a lot easier."

The ARRL is no longer requiring individual repeater owners to report their repeaters to ARRL each year, instead are looking to area coordinators to do the job.

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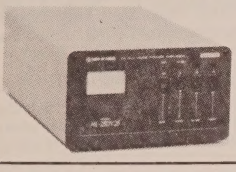

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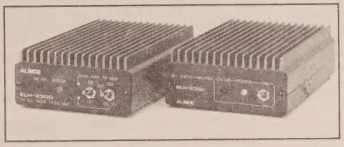

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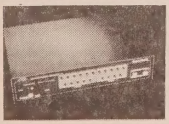

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WEST VIRGINIA NOTES

By Ted Wolfe, WD4KHL

I write this just before New Year's Day, the copy deadline for the February 1988 **Journal.** As you read this in February, Christmas is weeks past. But I hope Santa was good to you and you found something in the electronics line under your tree.

And with the arrival of a new year we begin thinking of what hamfests we'll work into our busy weekend schedule for 1988.

First around here is the annual Fayetteville, WV, hamfest sponsored by the Plateau ARC. It is again scheduled at Fayetteville High School on Sunday, Feb. 28. Doug Sweeney, N8AJC, Chairman for the Charleston Hamfest and Computer Show, said the sponsors there voted in November to hold it at the Charleston Civic Center on Saturday, April 9, 1988. VE exams offered. Walk-ins accepted.

And Don Williams, WA4K, wanted us to be sure we mentioned the Bluefield Hamfest which is scheduled for Sunday, May 8, 1988, at the Bluefield Recreation Center.

• • • •

There were a number of serious forest fires in several southern areas of the Mountain State during the first week in November. I did not receive any reports from repeater owners or sponsors of official usage of their machines for coordination work. But I did hear numerous mentions and updates of the fire situation on a ham-to-ham basis on several repeaters, including 147.000 in St. Albans and 145.17 on Bolt Mountain. The hams I heard appeared to be involved in aspects of the fire fighting but their repeater contacts did not appear to have been official communications for fire fighting agencies.

If your repeater is used for a public service event or emergency, let me know so I can write it up for a future **Joumal.**

• • • •

The Plateau ARC at Oak Hill elected new officers for 1988. They are: Stanley Goff K8BDH, President; Henry Maxwell W8AHL, V. President; Dewey Collins K8CFT, Secretary; and R.C. Godsey N8EQC, Treasurer. Also elected trustees were Henry Maxwell, W8AHL; Dewey Collins, K8CFT; and Harry Price, WD8RNB. The new officers took over on January 1.

Twenty two people attended the Nov. 20 PARC Christmas dinner at the Comfort Inn. That was the night of the first big snow and cold spell.

• • • •

The Jackson County ARC at Ripley held its Christmas dinner on Dec. 3rd with 21 present, including Greg Parsons, KC8VW, who had to work late and only arrived in time for dessert. Each person who attended was awarded a door prize.

Buck Earley, WA8USO and Clark Stewart, W8TN, representing JCARC, gave an Amateur Radio demonstration to the Ravenswood, WV, Cub Scout pack on Sat., Nov. 21. They showed the ARRL "New World of Amateur Radio" videotape and demonstrated use of both an HF rig and an HT. Also the "Archie" comic books, supplied by the ARRL, were handed out.

• • • •

I don't suppose too many clubs hold their testing program on a military base. But the November minutes of the Datapoint Amateurs and Technicians Association, sent to me courtesy of the club there and my San Antonio friend, W.C. Spenn (WR5Q), indicates their December testing was held at Kelly Air Force Base's Education Center. Tests were held at the same place again in January.

I remember when I was in Hawaii for three months late in 1980 and early 1981 that Honolulu area hams from one of the clubs in town had a regular Sunday morning brunch at one of the Enlisted Men's clubs on Hickam Air Force base. You have to be accompanied by one of the regular club members to get in the base gate but that was easy to arrang with one of the regulars over the air on 2-meters. I attended two of the brunches during my contract job there at one of the Honolulu commercial stations.

• • • •

One of my ham friends insisted I take his 220-Mhz hand held rig home with for a time to monitor th eonly 220-machine around here. I left the rig connected at least 80% of the time over a month's duration and heard little of the "good buddy" type chatter. The one thing I did notice was several times more than ten minutes went by without an ID. Personal names were used a lot, but ham calls were scarce in those monitored QSOs.

But 220 sounds great. I took the hand held mountain topping with me one Sunday afternoon and from Bee Mountain in Kanawha County I brought up machines on three other frequencies than the one right close at hand. I had a QSO on the Ashland, Ky., 220-repeater and brought the one at Williamson, WV, up without any contact.

• • • •

M.E. (Mac) McMillian, WD8OZT, Charleston, the West Virginia Southern Assistant to the Director for frequency coordination, reports that a number of Charleston and Kanawha Valley hams have affiliated with and qualified as W5YI Volunteer Examiners. The Kanawha Valley W5YI-VEC group will administer tests, novice thru extra class, the second Saturday of each month, beginning at 9:00 a.m. at Holy Trinity Catholic Church at 22nd Street and Second Avenue in Nitro. No pre registration is required as only walk-ins will be accommodated. The group is not affiliated with any particular amateur club or organization in the area. Persons needing further information or directions to the test site on test days may use the St. Albans 146.40/147.000 repeater for talk-ins.

The WB8FEQ, Huntington, 144.61/145.21 repeater has been moved from a site just outside Huntington to the Channel 13 tower on Barker's Ridge.

• • • •

I understand the Spruce Knob repeater frequency change has been accomplished and the N8HON machine now operates on 147.885/147.285. That small area of West Virginia is coordinated by T-MARC rather than SERA.

• • • •

While mountain topping recently I did bring up a repeater I Coordinated in Spencer when I was state director. I heard the N8APG call on the 147.105 output frequency. I don't know why it is no longer listed in the **Journal.**

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• • • •

Sam Moore, W8NCD, Charleston, got a computer for Christmas and is about to get into packet radio. He may have his feet wet on this mode by the time this is in print.

Also by the time upgrades may have been completed on the K8SLI-2 digipeter. As projected the changes should make it a better digi than "Scott" or K8SLI-1. If all goes well the antenna will be on one of the area television transmission towers.

Terry North, WB8IFS, may soon have a digi on Bee Mountain in Kanawha County. He presently runs WB8IFS, alias "CRW" from his mountain top home in Charleston, and has WB8IFS-1, or "NOBE", at Grantsville and WB8IFS-2, or "SPNCER" at Spencer, WV. Spencer reportedly has another digi with the call KB8RD-3.

I copied a list of some 60 Net/Rom nodes with calls and aliases from a fall issue of Packetear, the newsletter of the New England Packet Radio Association. I'm looking for paths south to ham friends on the Georgia-South Carolina line and down East in North Carolina where I used to work. I'd appreciate any packet pathway information anyone will send me. I still don't have a good propagation path to the nearest digi to enable me to do some wandering through the packet thicket.

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Name Badge
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1-1/2"X3" GREEN ON WHITE
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DO NOT WRITE ABOVE THIS LINE

SouthEastern Repeater Association, Inc.

FULL REPEATER MEMBERSHIP APPLICATION FOR YEAR _____

City/Mtn (Max 14 Char)	Callsign	Input Freq.	Output Freq.	
_____	_____	_____	_____	No. 1
_____	_____	_____	_____	No. 2
_____	_____	_____	_____	No. 3
_____	_____	_____	_____	No. 4

Name two Full Member Representatives to CVRA-SERA (ONLY These Two Persons Receive A Journal)

Name _____ Call _____ Name _____ Call _____

Address _____ Address _____

City _____ State _____ Zip _____ City _____ State _____ Zip _____

Phone: ( ) _____ Phone: ( ) _____

ARRL Member ( ) Yes ( ) No ARRL Member ( ) Yes ( ) No

Membership: New _____ Renewal _____ Fee Enclosed ( ) Yes ( ) No Amount: _____

Repeater Sponsor _____ Date _____

Please fill in all portions of this form. Highlight any changes from last year.

Date Rptr. Placed in Service: Experimentally _____ Reg. Svc. _____

Was your Frequency Coordinated ( ) Yes ( ) No Date Coordinated this loc _____

Coordinator's Name _____ (If Not Coord) Pls. Explain _____

ACTUAL REPEATER LOCATION: (Mtn./City) _____

Longitude _____ Degs. _____ Mins. _____ secs. Latitude _____ Degs. _____ Mins. _____ Secs.

Repeater Coverage: (Cities & Counties)

BASE: _____

MOBILE: _____

Transmitter _____ Receiver _____ Duplexer _____

Antenna _____ Duplexed: ( ) Yes ( ) No Split Site: ( ) Yes ( ) No

Split Site Linkage type _____ (If Radio, Frequency used) _____

Linked with any other repeaters: ( ) Yes ( ) No Linking Freq. _____

Name (if any) other repeaters linked _____

ANTENNA: Height above MSL _____ Height AAT _____ Power (ERP) _____

REPEATER: Open ____ Closed ____ AUTOPATCH: Open (A) _____ Private (PA) _____ Emerg. (EA) _____

If closed, Access is: Tone Burst _____ Hz, Touchtone _____ Buttons

Repeater I.D. is: CW _____ Voice _____ Rptr. control via: _____

Other information _____

Repeater Membership Fees:
All Memberships Expire Dec. 31

$15.00 annually - Payable Jan. 1
$12.00 after April 1
$8.00 after July 1
$6.00 after October 1

Mail Application & Check To:

SERA REPEATER MEMBERSHIP
POST OFFICE BOX 24292
WINSTON-SALEM, N.C. 27114-4292

Thank you!

Problem Solver

— by Carter Cogle, K4ARO

Most of the complaints that I receive as President, as well as those received by directors involve some sort of "interference". Commercial users have had a cure for this "problem" for decades. It is Continuous Tone Coded Subaudible Squelch, or CTCSS for short. Motorola calls it "PL", GE calls it "Channel Guard", RCA called it "Quiet Channel" and the list goes on.

The principle of operation is quite simple; a low-frequency tone, between 67 and 256.3 Hz is transmitted whenever your radio is keyed. A receiver having a decoder tuned to the same frequency will permit audio to pass, but will remain silent in the presence of signals with no tone or the incorrect tone. The CTCSS tone is transmitted at very low deviation, and is filtered by the receiver. There is no perceptible degradation of the received audio.

Most radios produced in recent years have, at minimum, encode CTCSS tone built in. A few require an extra module to be purchased that simply plugs in. Older radios may be equipped with encoders for under $30, and today's encoders are so small that they will fit even the most crowded HT's such as the ICOM 2AT. Your repeater probably has encode/decode CTCSS built in if it is a commercial unit; if not, less than $60 will get you a superb encoder/decoder such as the TS-32 made by Communications Specialists.

There are many benefits to be derived from going to CTCSS. Your communications will be much more enjoyable. Repeaters will be pleasant to listen to when not being keyed by distant stations, errant signals from malfunctioning transmitters and other sources of noise. If you have decode CTCSS in your mobile, riding through the "intermod alleys" of metropolitan areas will no longer require that you turn your volume down, tighten the squelch, or turn the radio off.

Coordination of tones is required if the system is to work and there is a national plan which has been in existence for sevral years. It is found on page 19 of the 1987-1988 ARRL REPEATER DIRECTORY.

If you want peace and quiet on your repeater, CTCSS is the answer. Don't complain to your coordinator or the FCC that you heard a station 100 miles away key up your repeater. This isn't anybody's definition of harmful interference. The ARRL REPEATER DIRECTORY publishes the CTCSS tones of repeaters so equipped, and the SERA JOURNAL will publish your tone code. As long as the tone is published, those who want or need to use your repeater will have access to it.

CTCSS and other forms of tone access are spectrum management tools which plan an important role in the land mobile radio industry and we have much to gain by implementing them in the amateur service.

FCC Denies Instant Novice Operation

The FCC released an Order on December 31, denying a Petition for Rulemaking seeking to authorize immediate operating privileges to new Novice licensees.

The Petition, filed by Frederic G. Hambrecht, KJ4JE of Jamestown, Tn., suggested that the successful examinee's station could be authorized by a temporary call sign of one of the administering VEs, plus a unique numeral.

In denying the petition, Ralph Haller, Chief of the FCC's PRB said, "The present system for issuance of Novice operator licenses is a great improvement over the "mailback" system that was in effect prior to 1983."

BLUEFIELD HAMFEST

MAY 8 1988 9 AM TO 3 PM

AN OFFICAL ARRL HAMFEST

PRIZES
*ICOM 735 HF TRANS
*MFJ ANTENNA TUNER
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F.C.C. EXAM
*BLFD. STATE COLLEGE
*WALK-IN ACCEPTED
*COPY OF LICENSE
*COMPLETE F.C.C. 610

LOCATION
*BLUEFIELD AUDITORIUM
*STADUIM DRIVE

ADMISSION
*$4.00 AT DOOR
*CHILDERN UNDER 12
FREE

TALK-IN
*145.49 (B.R. 549)

INFORMATION
*BLUEFIELD HAMFEST
*RT.5, BOX 457
*BLUEFIELD, W.V. 24701
*S.A.S.E. (304-325-3058)

TABLES
*$5.00 EACH
*LADIES CRAFTS WELCOME
*OUTSIDE TAILGATERS $2.00
*PLUS ADMISSION TICKET

North Carolina Leads In Full Membership

— by Wayne C. Williams, K4MOB

North Carolina repeater owners came forth in the late days of December with a mighty swoop, and maintained the status of having the most repeater members renewed by the February Journal again for 1988. Two factors make this quite unique for the Tar Heel State. (1) It has the third highest number of repeaters in the State, requiring many more to attain an overall percentage, and (2) the State has fewer multiple repeater owners than Virginia and Georgia. For instance, North Carolina turned in 67 Full Memberships, which represented 104 repeaters or an average of 1.5 repeaters per membership. On the other hand, Virginia turned in 45 applications for 87 repeaters, or 1.9 repeaters average per application. Georgia and Tennessee average repeaters per application were more than North Carolina.

Early Bird Renewals

As we said, North Carolina topped the list with 67 applications and 104 repeaters, for a 48% renewal. Next was Virginia, with 45 applications and 87 repeaters renewed, for a 46% renewal average across the State.

Both North Carolina and Virginia had gains in renewal percentages over 1987, while the remainder of the States fell back, some considerably over this same period in 1987.

Tennessee and Georgia both have 48 repeaters renewed for 1988, for 22% renewal rate. In 1987, Georgia at this time had 33%, a loss, and Tennessee had 18%, a slight gain, in 1988.

West Virginia scored a 33% renewal rate, with 21 repeaters, and South Carolina had 30 repeaters, for a 36% renewal rate. East Kentucky fell way back with 18% renewal, compared to 45% last year.

Across SERA territory, thanks to heavy gains in North Carolina and Virginia, we maintained a starting 33% renewal rate, just 1% lower than this period last year.

Repeater owners who did not get their renewals in by the January 14th cutoff date, will note a "D" in the code column by their repeater listing. If they have not renewed by the May Journal cutoff, the "D" will revert to an "N", for Non-Member.

The Repeater Journal is publishing the Full Membership renewal application for the last time this issue. Repeater owners who have not renewed are urged to get your applications in at your earliest convenience.

Reading The Chart

In the chart below, final dates indicate numbers of Full Members at year ending for each State. To check 1988 totals, see the Current 1988 column, which indicates current number of repeaters renewed for each State. The next column indicates the percentage of renewal computed against the total number of repeaters in each respective State. The State Repeater column indicates total number of machines counted for each State, and the final column is the number of applications returned for each State.

CVRA-SERA FULL MEMBERSHIP FROM 1983 TO DATE. CORRECT AS OF 1-14-88 THRU '88 APPL. # 209

	REPEATER								
STATE	FINAL 1983	FINAL 1984	FINAL 1985	FINAL 1986	FINAL 1987	CURR 1988	1988 MBR %	STATE RPTR	#1988 APPLIC
N.C.	100	83	149	147	123	104	48%	216	62
S.C.	24	35	56	43	44	30	36%	83	21
VA.*	58	60	92	88	98	87	46%	189	45
W.VA.	28	21	41	40	51	21	23%	91	14
TENN.	47	58	85	63	80	48	22%	222	29
GA.**	9	18	109	125	110	48	22%	219	31
E.KY***	1	4	18	21	19	7	18%	39	6
ALA.****	1	1	4	67	7	2	--	--	1
FLA.****	--	--	--	4	--	0	--	--	0
TOTALS	268	280	554	598	532	347	33%	1059	209

* TTL.VA.RPTRS.ALSO INCLUDE N.VA. & WV PANHANDLE - TMARC TERRITORY.
**GA.ASSUMED DISTRICT STATUS IN 3rd QTR.OF 1985.
***K.KY.ASSUMED DISTRICT STATUS IN MID 1985.
****ALA.& FLA. NOT SERA DISTRICTS.
1988 % OF SERA FULL MBR DOES NOT INCL. ALA & FLA--ONLY OUR 7 DISTRICTS.

NC Vice-Director Comments

Greetings to all for the New Year. During the past several months, some of you have experienced excessive delays in getting coordination forms, and once you got them, getting your repeaters coordinated. I would like to apologize to all that this happened to, and assure all of you that I have made a New Years Resolution to process all request within 72 hours of receipt. During the first week of January, all backlog was acted upon and if you have a request in and have not heard from me, **PLEASE** contact me and lets get your request taken care of.

Some of you may not be aware of the steps I take when a request for coordination is received or the time involved with each step. The first step is a check of the application for completeness and if information is missing, contact applicant for the missing data. Then I must check to see if the requested Freq. is available. This may take 5 minutes (anyone want a 1270 Mhz. freq.?? Just call and you've got it!!) or 5 days. If you request a Freq. that you know is questionable, expect a delay. After I am 99.9% sure that a Freq. is OK, then I must write the coordinators in each adjacent state to see if there is any potential for conflict that I am unaware of. These coordinators were asked to respond within 2 weeks. If I receive no negative replies then coordination papers are issued.

As you can see, all of this takes time and if you send in incomplete information, it will only add to the time required to complete your coordination.

I would like to ask your help in one area. There are a number of Frequencies that are coordinated for repeaters but the repeater is off the air. If you are aware of such cases, please advise me so that I can contact the repeater owner to see if we can free up the pair. It is becoming increasingly difficult to find free pairs in NC and you may help a friend with his attempt at getting a needed repeater on the air.

In closing, I wish each of you a prosperous New Year and look forward to hearing your comments and suggestions.

North Carolina News

— by Orin Harding, V-Dir.

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It's a proven fact! Hamfests who advertise their show at least once in the Repeater Journal see a definite increase in Attendance. Reach 4,000 readers for only 2 cents per reader in your full page ad. Call or write our Advertising Manager for the "Best Deal" anywhere in Hamfest Advertising.

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ANNUAL
FAYETTEVILLE, WV
HAMFEST

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Sunday Febuary 28, 1988 Time: 9:00 a.m.-4:00 p.m.

Fayetteville High School

Take Laurel Creek Road, Exit East about Two Blocks off RT 19

Registration $3.00 Flea Market Tables $3.00

Major Commercial Exhibitors

1 st prize	2 Meter Mobile Transceiver
2 nd prize	13 Inch Color T.V.
3 rd prize	Ham Station Clock
Special prize	**VHS Video Recorder**

need not present to win (club members not eligible) hourly drawings for additional prizes

ARRL Approved **ARRL Materials Available**

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Talk in on: 146.79

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John Witt W8OQC
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Come see the Longest Steel Arch Bridge In The World
876 ft above the New River

REPEATER JOURNAL ADVERTISING RATES

Effective 1 January 1987

The Repeater Journal is a 3 column magazine with overall page dimension of 8½ x 11 inches. Our page size enables a wide variety of ad sizes from full page down to one column inch size.

Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

ADVERTISING DEADLINES

FEB. Issue–Dec. 20 MAY Issue–Mar. 20
AUG. Issue–June 20 NOV Issue–Sep. 20

Advertising copy MUST be mailed to: REPEATER JOURNAL ADV. MANAGER, SHARON WARD, 5573 Vienna-Dozier Rd., Pfafftown, N.C. 27040.

The CVRA REPEATER JOURNAL cannot be responsible for errors in advertising, or held accountable for equipment or accessories that do not live up to the advertised claim. We are not responsible and cannot guarantee insertion of advertising received after deadline.

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: One additional spot color, on available color pages is available for an additional $25.00 charge per ad. FULL COLOR: is available on the Inside Front and Inside Back covers. 100-130 Line separation negatives, right reading, emulsion down are required. No extra charge for full bleed. Due to Journal width being 1/4-in wider than national magazines, the color will bleed to outer edge, with a color stripe on inner edge of page, if separations do not fill width.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

REPEATER JOURNAL ADVERTISING SIZES AND RATES

Ins. Frt. or Ins. Bk. Cover (Full Color)	8-1/2"x11"	$300.00
Full Page	7-1/8" x 9-7/8"	85.00
Full Page Bleed (any sides)	8-1/2" x 11"	100.00
2/3 Page (Vertical)	4-5/8" x 9-7/8"	65.00
1/2 Page (Horizontal)	7-1/8" x 4-3/4"	48.00
1/2 Page (Vertical)	3-1/2" x 9-7/8"	48.00
1/2 Page (Vertical 2-col)	4-5/8" x 7-1/8"	48.00
1/3 Page (Vertical Only)	2-1/4" x 9-7/8"	35.00
1/4 Page (Vertical Only)	3-1/2" x 4-3/4"	28.00
1/6 Page (Vertical)	2-1/4" x 4-3/4"	18.00
1/6 Page (Horizontal)	4-3/4" x 2-1/4"	18.00
1/12 Page (Vertical Only)	2-1/4" x 2-1/4"	10.00
Business Cards - Standard Size	(4 Issue Contract Only)	16.00

In Advance

Classified Ads (30 Words Maximum per ad) In Advance 3.00
Color (1 additional color plus black) An Size Ad 25.00

Sizes listed above are width by length in that order. Ads which run lengths between sizes listed above will be billed according to column inch rate at midpoint. Prices above are for exact size, camera ready positive photoprint, or pasteup. Camera work, typesetting additional. No charge for layout.

Not $300 a page, Not even $200 a page. The Repeater Journal advertising rates and circulation provide you the best dollar value of any Amateur advertising medium in the Southeast. Repeater Journal Advertising PAYS FOR ITSELF! Big circulation National Magazines are Great for results, but do the results pay for the high cost of advertising. Concentrated circulation, low rates, all give the Repeater Journal advertiser the most for his dollar. Call or Write our Advertising Manager today!

Yes! I Want to Support SERA - Sign Me UP for the Journal!

SERA ASSOCIATE MEMBERSHIP APPLICATION

Name _____ Call _____

Address _____ Date _____

City _____ Zip _____

Phone (___) _____ Member ARRL ( ) Yes ( ) No

Enclosed is $ _____ for _____ Year(s) Mail Application & Fee To:

SERA Associate Membership
Post Office Box 24292
Winston-Salem, N.C. 27114-4292

You Will Receive the Next Journal

NEW _____ RENEW _____ HOT-P _____
$6.00 Year (Maximum 2-Years) $10.50-Max. 1 Year

Support Your Official COORDINATOR! Join SERA Today!

Make a copy of this application and pass it to a friend. Encourage him to help support the coordination council that for 17 years has worked to keep your repeater in the clear. Your membership guarantees a continuation of this work. Associate Members (repeater users) will receive the REPEATER JOURNAL quarterly. If you are a present Associate Member, you may use this application to renew, change address, or change callsign.

Deadlines for membership are the 15th of the month prior to Publication, to receive the next upcoming Journal. (Jan. 15, Apr. 15, Jul. 15 and Oct. 15). Applications received after deadline will receive the next Journal 3 months away.

REPEATER-CLUB-NET SERVICE PAGE

THE APPALACHIAN REPEATER ASSOCIATION

146.955 ONEIDA PEAK/BLFD. KD8MZ	147.03 HERNDON MT. KC8IT	145.31 LAYLAND/MANN MT. N88ZS
145.17 BOLT MT. N8DKL	444.625 BLUEFIELD, VA. N8GVJ	146.625 HUFF KNOB/FLT TOP N88ZS
444.0 HERNDON MT. NRCYH	145.01 BLUEFIELD, VA WB4BBF-1	444.8 LICK KNOB N8FRV

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$16.00 A YEAR PREPAID
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WRITE OUR SALES MANAGER
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145.11 **REPEATER**
RICHMOND, VA
K4OJE N4EXQ **OTHERS**
Club, ARRL, ARES, DX, FCC Information

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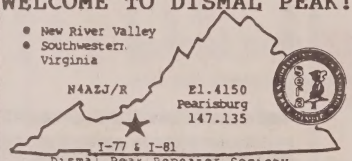
- New River Valley
- Southwestern Virginia



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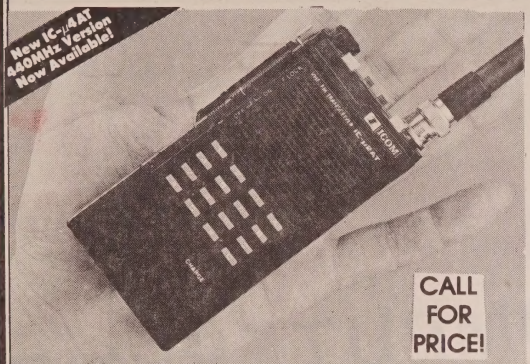

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A new micro-sized 2-meter handheld with all the performance and reliability you've come to expect from an ICOM!

The IC-μ2AT. A breakthrough that ends every amateur radio operator's quest for that one true, go-anywhere 2-meter handheld.

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Measuring only 4.6" high by 2.3" wide, by 1.1" deep, the Micro fits in your pocket or purse as easily as a cassette tape. This miniaturization doesn't compromise ICOM quality. It's exactly what you'd expect from ICOM: high performance in a micro package.

Full Featured. And ICOM hasn't compromised features for size. The IC-μ2AT DTMF version includes ten programmable memories, odd offset capability, an LCD readout on the top panel for easy readability, up to three watts of output (optional), 32 built-in subaudible tones AND wideband receive coverage from 138 to 162.995MHz in 5kHz steps for MARS/CAP operation and weather broadcasts. There's also a simple to use digital **TouchStep Tuning System** for fast shirt-pocket frequency adjustments. An IC-μ2A version is also available without DTMF and PL tones.

Accessories. The Micro utilizes most existing ICOM handheld accessories plus it hosts a new line of battery packs, long life to alkaline battery cases.

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We now carry a complete Supply of ICOM Radios and Accessories. Call for Information Prices-Availability

ICOM IC-28H

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- **Compact Size**
- **Simple to Operate**
- **Large LCD Readout**
- **25 or 45 Watts**
- **Packet Compatible**
- **21 Memory Channels**

The IC-28H has all the features you need for carefree 2-meter mobile operation. The only thing it doesn't have is a big price.

45 Watts. The IC-28H provides a full 45 watts of powerful output. The **IC-28A** 25-watt version is also available. Both units have a selectable low power.

Large LCD readout. A wide-view LCD readout can be easily read even in bright sunlight. An automatic dimmer circuit reduces the brightness for evening operation.

Wideband Coverage. The IC-28H performs from 138–174MHz (specifications guaranteed from 144.00–148MHz). Ideal for MARS and CAP operation.

Compact Size. The IC-28H measures only 2 inches high by 5½ inches wide by 7¼ inches deep (IC-28A is 5¼ inches deep). Great for mobile installations where space is limited.

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While Present Supply Lasts! **$895.00** Includes Shipping

21 Memory Channels. To store your favorite frequencies, 21 memory channels are provided. All memories are backed up with a lithium battery.

Scanning. Scan the entire band or the memory channels from the provided HM-12 mic.

Easy to Operate. With only 12 front panel controls, the IC-28H is simple to operate.

Available Options. IC-HM14 DTMF mic, PS-45 13.8V 8A power supply, UT-29 tone squelch unit, SP-10 external speaker, HM-16 speaker mic and HS-15/HS-15SB flexible mic and PTT switchbox.

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16th Annual HAMF & COMPUTERFAIR

Hours: 8 AM-4 PM
Main Drawing: 3 PM

APRIL 10, 1988

N.C. STATE FAIRGROUND

JIM GRAHAM BLDG.

RALEIGH, N.C.

HAMFEST SOCIAL SATURDAY NIGHT

A welcoming party will be held from 7-10 PM for all in the large meeting room inside the Hamfest building. Food, drinks, prizes for those present.

ROYAL ORDER OF WOUFF HONG Ceremony will be held after the social.

AMATEUR RADIO EXAMS

Exams by Pre-Registration only. Send completed FORM 610, photocopy of your current license, code/theory Credit Certificates (if applicable) and a check or money order for $4.55, payable to R.A.R.S. to:

Vince Yakamavich, AA4MY
220 Carriage Trail
Raleigh, N.C. 27614
(919) 847-8512

The exams will be held in the HAMFEST BUILDING, First Floor Meeting Room, No. 2, starting at 7:30 a.m. Please bring your original Current License and a second form of identification, such as a Driver's license.

SPECIAL INTEREST MEETINGS

ARRL FORUM - SPECIAL GUESTS

* Phil Sager, WB4FDT, ARRL Mgr. Regulatory and Information Br.
* Roanoke Div. Dir. Gay Milius, W4UG
* Roa. Div. Vice-Dir. John Kanode, N4MM

Q.C.W.A., NAVMARS, NTS, ARES and other meetings. Times will be announced at the Hamfest.

PRIZES

1st - Choice: ICOM IC 735 HF Transceiver with matching power supply.
OR
ICOM IC 275A VHF Multi - Mode 2M 25 Wt. Transceiver.

2nd - AMP SUPPLY, INC. LA 1000 HF 1KW Linear Amplifier.

3rd - ICOM IC 3200A Mobile 2 Band VHF Transceiver

4th - ICOM IC-28H 45 Wt. 2M FM Transceiver.

5th - SANTEC ST20T 2M Handheld Transceiver

PRE-REGISTRATION PRIZE:
AEA PK 232 Multi- Mode Controller

CW CONTEST IN THE BUILDING (PRIZES)

HOMEBREW CONTEST IN THE BUILDING (PRIZES)

FOR THE LADIES

Special programs and on-going fairground activities will be of interest to the XYL.

1 Fleamarket space (1 8 ft. Table; 2 chairs)..$6.00 Our tables and chairs only - No outside facilities available - 24 hr. security - Vendor set-up Saturday 4-10 pm; Sunday 6 am. All vehicles must vacate the building by 8 am. Bring your own handcart.

RADIO SOCIETY'S

VENDOR INFO: Rollin Ransom, NF4P
(919) 269-4406

GENERAL INFO: RARS Hamfest
P.O. Box 17124
Raleigh, N.C. 27619

RARS members will monitor 146.04/64 and 146.28/88 to assist you in finding location

EST

N.C. ARRL STATE CONVENTION

The Raleigh Amateur Radio Society welcomes you to it's Sixteenth Annual RARS HAMFEST. All of the Hamfest activities will be in the Jim Graham Building and there will be no outside activities connected with the Hamfest. We will be sharing the Fairgrounds with other events that will be going on so please follow the traffic and parking directions on the grounds. If you desire full hook-up overnight camper/RV parking, please check the box on the Registration Form. A $10.00 per night fee will be collected on site by the Fairgrounds Authorities.

Pre-registration by April 2nd, 1988, is most desirable as indicated on the Pre-Registration form.

AC power can be available. Request vendor information. There is a full service concession in the Hamfest building. Several motels and restaurants are located on Route 70W west of the Beltline.

Don't forget to stop at the ARRL and RARS club Booths for an eyeball QSO with your ARRL Section Officials and pick up some of the latest publications and membership forms.

All Hamfest participants over the age of 12 must pay the registration fee.

The RARS Hamfest COMMITTEE will do their best to see that you have a good time. If you have any comments or suggestions, please let us know. RARS club members will be wearing yellow and blue armbands.

PRE-REGISTRATION FORM

Make checks payable to RARS

PRE-REGISTRATION PRIZE

AEA PK 232 Multi-Mode Controller Pre-registration Drawing at 10 am, Sun. Apr 10, you DO NOT need to be present to win !

TO: Rollin Ransom, NF4P
Rt. 5, Box 267
Zebulon, N.C. 27597

Please Print Clearly and Include SASE

_____ _____
Name Call

_____
Address

_____ _____ _____
City State Zip

PRE-REGISTRATION CUTOFF DATE: April 2, 1988

---Reg.....$4.00 $_____

---Tables..$6.00 $_____

Total Enclosed: $_____

Space for Camper/RV ( )

The Yen/Dollar - What's It Doing To Us!

Comment

A couple of years ago, the average person didn't even know what the Japanese Yen-American Dollar exchange rate was. In fact they didn't even care. What difference did it make? The American public was riding high on a greatly devalued Yen, against the mighty American Dollar.

Then something happened. In the interest of trying to reduce the huge American trade deficit, the U.S. Government made necessary moves to let the American Dollar float on the foreign market. The idea was to make foreign goods more expensive in this country, and to make American goods cheaper in the foreign countries--result, more exports and less imports.

Us Amateurs didn't really have any foreign currency to worry about except the Japanese Yen, because just about all imported Amateur equipment was made in Japan.

The U.S. Government's policy partially worked. The Dollar started a steep fall against foreign currencies. But the trade deficit continued to climb.

More moves were made to continue the Dollar's fall. Starting with a 250 Yen/Dollar, it finally dipped to under 200 Yen per Dollar. Did Japanese goods go up? Not much!

Knowing the value of the United States' business, Japanese manufacturers started cutting their profit margins, and making their goods more efficiently. Car prices, electronics, and in our case, Amateur Radio equipment saw only modest prices increases, really not much more than we expected if inflation were figured in.

To our woes, the Dollar continued to fall against foreign currencies, now dipping below 175 Yen. Japanese manufacturers cut profit margins more, American Distributors did some profit cutting, even Dealers trimmed their already slim margin, trying to keep the Amateur Radio equipment within a good selling price.

But alas, the Dollar continued to fall. By the end of 1987, we were seeing the lowest exchange rate between the U.S. Dollar and the Japanese Yen in 50 years.

In the beginning of 1988, we are seeing Distributors coming in with very hefty price increases again. The Manufacturer, the Distributor, and the Dealer have cut profit margins to the bone, so now prices will have to float with the Yen/Dollar valuation.

Strangely, some Japanese companies are looking for "cheaper" labor in Taiwan, (Republic of China), having parts of their equipment built there, and assembled in Japan.

You are aware of how the Japanese auto makers are setting up factories in the United States, because the labor is cheaper to build the cars here, rather than export them to the United States.

The situation doesn't promise to get any better. We have doomsdayers who predict the Dollar will fall to 100 Yen before it stabilizes. Others say it will bottom out and move back to about 150 Yen and stabilize. Regardless of who is right, it is very unlikely we'll ever see things back like they were in early 1986--cheap Japanese products.

Hopefully, now that United States labor is considered cheap, some enterprising American Electronics Manufacturer will get back into Amateur Radio, or some existing Amateur manufacturer will expand their Amateur lines. The conditions are ripe. Amateur radio is on the grow with Novice Enhancement, and hopefully we will see more American Transceiver equipment come on the market in the future. At the present, no one has announced any moves in that direction.

There is consolation to all this. Even though the Yen/Dollar exchange rate is hovering in the 120's as this is being written, and Amateur transceivers are breaking into new higher prices, and will continue to go up as long as the dollar continues to fall, we still aren't paying as much for what we're getting as we did in the early '70s.

I can remember in 1975, the ICOM IC-230, a early "bare-bones" synthesized transceiver for 2-meters, which covered 146-148 mhz in 30 khz splits as it came from the factory, and only 10-watts output power, and regularly selling for $485.00. Likewise in those days, a KDK FM-144 cost over $500. What can you get today for that price? Your 2-meter transceiver will do just about everything but wash the dishes.

So technological advances in the State of the Art gives us an unbelievable radio, so small you can almost put a mobile unit in your pocket. Handhelds are so small, they can get lost behind your pack of cigarettes in your pocket. VHF/UHF equipment, even in the $500 range is still a great buy, compared to what we got 15 years ago.

HF Transceivers are another thing. We expect so much from them, automatic tuning, automatic antenna tuner, automatic keying, automatic break-in, etc., etc., etc., they will continue to be heading toward the $2,000 price range.

Even the "bare-bones" transceivers are filled with exciting features that we never had in the old tube-type days. The prices are higher than 15 years ago, but the features are much more comparable to today's demanding operator.

Comparing Amateur Radio gear with cars... 15 years ago we could buy an automobile for $5,000. That same car model today costs over $15,000. So I guess we really aren't that bad off when we see what is available today in Amateur equipment and what we pay today, compared to 15 years ago. VHF/UHF equipment is a better buy. As for HF equipment, I consider the jury still out on that one, can't decide if prices are getting too much for what you get, or whether you're getting too much to have to pay for.

So where do we stand? Nothing is going to get cheaper, that's for sure. We will be seeing additional price increases in equipment if the Dollar drops more against the Yen. I don't believe all Distributors have adjusted their prices to the current valuation, due to delays in purchasing Yen, ordering additional stock, and warehouse stock, so we will definitely see some more price increases this Spring, even if the Dollar stabilizes at 125 Yen. Of course, if it drops more, the problem will be compounded.

Time to buy now? I certainly am not in a position to foresee when is the best time to buy, but I repeat, things are not going to get cheaper. They will go only one way, and that is up, so you'll have to be the judge as to whether to buy now, or wait.

Regardless of how you look at it, the days of merriment and low prices on Japanese Amateur equipment are gone for the foreseeable future. Hope you were able to enjoy it while it lasted!

— Wayne C. Williams, K4MOB
Journal Editor & Publisher

ARRL Repeater Directory

The 1988-89 ARRL Repeater Directory is getting ready for the printer, and will be available at the end of April.

Bart Jahnke, who takes care of the massive job of collecting repeater data from around the country, told the Journal that the new Directory will have about 800 more repeater listings than did the old book. He said the total count now stood at about 11,800 entries.

He said 220 mhz. was the biggest growth band for the 1987 year, with an addition of over 275 more machines. A total of over 1300 of the 220 mhz. machines are now in the index.

Bart said since they are accepting changes from Frequency Coordinators across the nation, instead of individual repeater owners, he is able to get his list together a little faster, especially when they are set up like SERA and was able to send him the entire 1987 year's changes via computer over the telephone in about 8 minutes.

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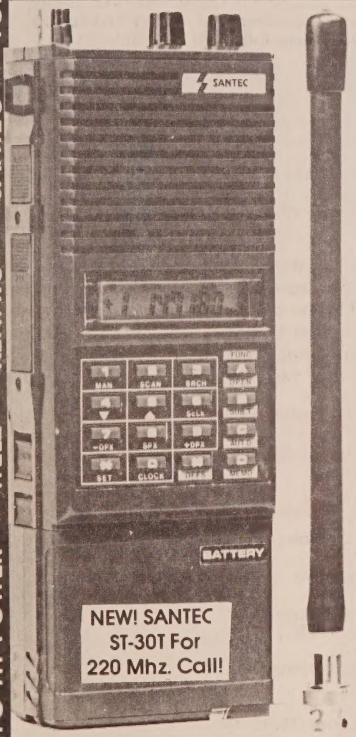

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Coming Events

SERA REPEATER JOURNAL CALENDAR OF EVENTS

FEBRUARY 1988

6-7.....Tropical Hamboree, MIAMI, FL
20-21.....Hamfest, SARASOTA, FL
21.....Winter Hamfest, ELKIN, NC
27.....Hamfest, DALTON, GA
28.....10th Annual Hamfest, FAYETTEVILLE, WV
28.....Winterfest, VIENNA, VA

MARCH 1988

6.....Swapfest, MORRISTOWN, TN
11-13.....Hamcation, ORLANDO, FL
19-20.....Hamfest, CHARLOTTE, NC

APRIL 1988

9.....Hamfest/Computer Show, CHARLESTON, WV
10.....Hamfest, CHARLESTON, SC
10.....NC State ARRL Conv/Hamfest RALEIGH, NC
16.....Hamfest, OAK RIDGE, TN
29-30-May 1.....Hamvention, DAYTON, OH
30-May 1.....49th Annual Hamfest, GREENVILLE, SC

MAY 1988

8.....Hamfest, BLUEFIELD, WV
14-15.....Hamfest, BIRMINGHAM, AL
14-15*.....Hamfest, TOCCOA, GA
14.....DFMA Hamfest, DURHAM, NC
21.....Hamfest, KNOXVILLE, TN
29.....Hamfest, ROANOKE, VA
29*.....Hamfest, CHIPLEY, FL
.....ARRL Roanoke Div. LPM Meet, CHARLOTTE, NC

JUNE 1988

3-4-5*.....Hamfest, DALLAS, TX
4-5*.....Cleveland ARC Hamfest, CLEVELAND, TN
4-5*.....Hamfest, ALBANY, GA
5*.....John Ross Hamfest, FT. OGLETHROPE, GA
5*.....Hamfest, COLUMBUS, OH
5*.....Hamfest, HUMBOLT, TN
5*.....Hamfest, MANASSAS, VA
5*.....Hamfest, MUNCIE, IN
11.....Hamfest, WINSTON-SALEM, NC
19*.....Hamfest, FREDERICK, MD

JULY 1988

9*.....Hamfest, SPRUCE PINE, NC
9-10*.....Hamfest, ATLANTA, GA
16*.....Summer Swapfest, CARY, NC
17*.....TSRAC Hamfest, WHEELING, WV
23-24*.....WV State ARRL Conv., JACKSON'S MILL, WV
31.....BRATS Hamfest, W. FRIENDSHIP, MD

AUGUST 1988

6-7*.....Hamfest, ASHEVILLE, NC
6-7*.....Hamfest, JACKSONVILLE, FL
6-7*.....Ham Com, SHREVEPORT, LA
7*.....Winchester Hamfest, BERRYVILLE, VA
7*.....Jax County Hamfest, RIPLEY, WV
7*.....Hamfest, LEXINGTON, KY
13-14*.....Hamfest, HUNTSVILLE, AL
14*.....New River Valley Hamfest, DUBLIN, VA
20-21.....Hamfest, MADISON, GA
27-28*.....Hamfest, MELBOURNE, FL
28*.....Hamfest, CEDARS OF LEBANON, TN

SEPTEMBER 1988

2-3-4.....ARRL SW Division Hamcom, ANAHEIM, CA
3-4*.....31st Annual Hamfest, SHELBY, NC
9-11.....ARRL National Convention, PORTLAND, OR
10-11*.....Hamfest, MOBILE, AL
10-11*.....Hamfest, LOUISVILLE, KY
11.....Foundation A.R. Hamfest, GAITHERSBURG, MD
17-18.....Roanoke Div. ARRL Conv., VIRGINIA BEACH, VA
17-18.....Georgia-Line HF/Comp. Fair, AUGUSTA, GA
18*.....Cincy.Hamfest, CINCINNATI, OH
18*.....Hamfest, CLEVELAND, OH
24*.....Hamfest, ANNISTON, AL
25*.....Hamfest, Lanierland ARC, GAINSVILLE, GA

OCTOBER 1988

1*.....Hamfest, HUNTINGTON, WV
1-2*.....Hamfest, BILOXI, MS
2*.....Hamfest, ROCK HILL, SC
2*.....Hamfest, ROME, GA
8-9*.....Convention, HOUSTON, TX
8-9*.....Central GA Hamfest, WARNER ROBBINS, GA
8-9*.....Hamfest, MEMPHIS, TN
8-9*.....Hamfest, VERO BEACH, FL
9*.....4th Annual Techfest, RICHMOND, VA
9*.....Hamfest, MAYSVILLE, NC
15*.....Tri-Cities Hamfest, GRAY, TN
29-30.....Hamfest, CHATTANOOGA, TN
29-30*...Ham Radio/Comp Expo 88 LAWRENCEVILLE, GA

NOVEMBER 1988

5-6*.....Hamfest, LAS VEGAS, NV
5-6*.....Hamfest, FT. LAUDERDALE, FL
6*.....Hamfest, CONCORD, NC
12-13*.....Central Alabama Hamfest, MONTGOMERY, AL
12-13*.....Hamfest, GREENSBORO, NC
19-20*.....Suncoast Convention, ST. PETERSBURG, FL
19-20*.....Hamfest, W. PALM BEACH, FL

PLEASE NOTE: Hamfests marked with an Asterisk are NOT CONFIRMED, and are based solely on last years dates. DEADLINE for confirmation of Asterisk marked shows for the MAY 1988 Journal is April 15, 1988. Hamfest Advertising for shows mid-May through August, or the end of the year should be advertised in the May Journal.

WHERE TO BUY DIRECTORY

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YAESU USA (CA) ..... Ins. Bk. Cover

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DIRECTOR

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